



## WIND RIVER II CORPORATION

1245 Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801)466-4131  
Facsimile: (801)466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

Marc T. Eckels – Vice President

August 22, 2007

Diana Whitney, Petroleum Technician  
Utah Division of Oil, Gas & Mining  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Transmittal of Application for Permit to Drill  
Snowshoe 2-15-16-22  
NWNE Sec. 15-T16S-R22E  
Grand County

Dear Ms. Whitney:

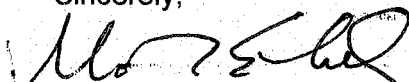
Enclosed are two copies of the APD for the above-captioned well. This well was to have been the third well in our Rock Spring Unit drilling program on a large block of SITLA leases. The original APD for this well was approved on February 16, 2006, and expired a year later. The location for this well has been built, but our drilling priorities changed on the basis of drilling results and integration of drilling data into our 3D seismic model. We still intend to drill this well, probably toward the end of this year. Bart Kettle sent me a Notice of Violation because we have not restored the well pad. Submitting a new APD is listed as a remedy for this violation and it is the one that I would like to use in view of our intention to drill the well soon.

Water for drilling this well will be purchased from Bert Delambert and trucked from his ranch to the well site. The water right number is 49-123. We may also transfer water from the reserve pits of previously drilled wells on the property.

Both the well pad and the access road for this well were cleared by Montgomery & Associates during the summer of 2004 as part of the archaeological clearance for the 40-square mile 3D seismic survey that preceded our drilling program. This can be verified by Lavonne Garrison at SITLA.

As always, we appreciate your help and stand ready to answer any questions that may arise. I have always hoped that someday I would submit an APD to you that is not a rush. This is the day. You can take your time with this one.

Sincerely,



Marc T. Eckels

RECEIVED

AUG 22 2007

DIV. OF OIL, GAS & MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

**APPLICATION FOR PERMIT TO DRILL**

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML-47566	6. SURFACE: State
		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: Rock Spring Unit	
2. NAME OF OPERATOR: Wind River II Corporation		9. WELL NAME and NUMBER: Snowshoe 2-15-16-22	
3. ADDRESS OF OPERATOR: 1245 E. Brickyard Rd. CITY Salt Lake City STATE UT ZIP 84106		PHONE NUMBER: (801) 466-4131	
4. LOCATION OF WELL (FOOTAGES)  AT SURFACE: 948' FNL & 1,461' FEL (NWNE) Sec. 15-T16S-R22E SLB&M AT PROPOSED PRODUCING ZONE: same 631447X 39.420439 4364338Y -109.472990		10. FIELD AND POOL, OR WILDCAT: <del>Wildcat</del> Underscored 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 15 16S 22E SL	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 45 mile NE of Green River / 65 Miles SE of Roosevelt		12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 948'	16. NUMBER OF ACRES IN LEASE: 2,560	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 2,500' to Snowshoe 4-15-16-22	19. PROPOSED DEPTH: 10,500	20. BOND DESCRIPTION: Surety Bond RLB0008795	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 7,465' (GR)	22. APPROXIMATE DATE WORK WILL START: 12/2007	23. ESTIMATED DURATION: 30 days	

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12.25"	9.925 J-55 36#	3,600'	Lead: Lite Premium 650 sx 1.8 cu ft/sk 12.8 ppg
			Tail: Class G 250 sx 1.19 cu ft/sk 15.6ppg
7.875"	5.5# P-110 17#	10,500'	See Drilling Plan

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Marc T. Eckels

TITLE Vice President call (435) 901-4217

SIGNATURE 

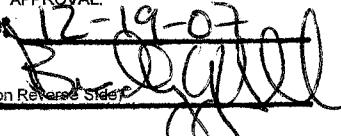
DATE August 22, 2007

(This space for State use only)

Approved by the  
Utah Division of  
Oil, Gas and Mining

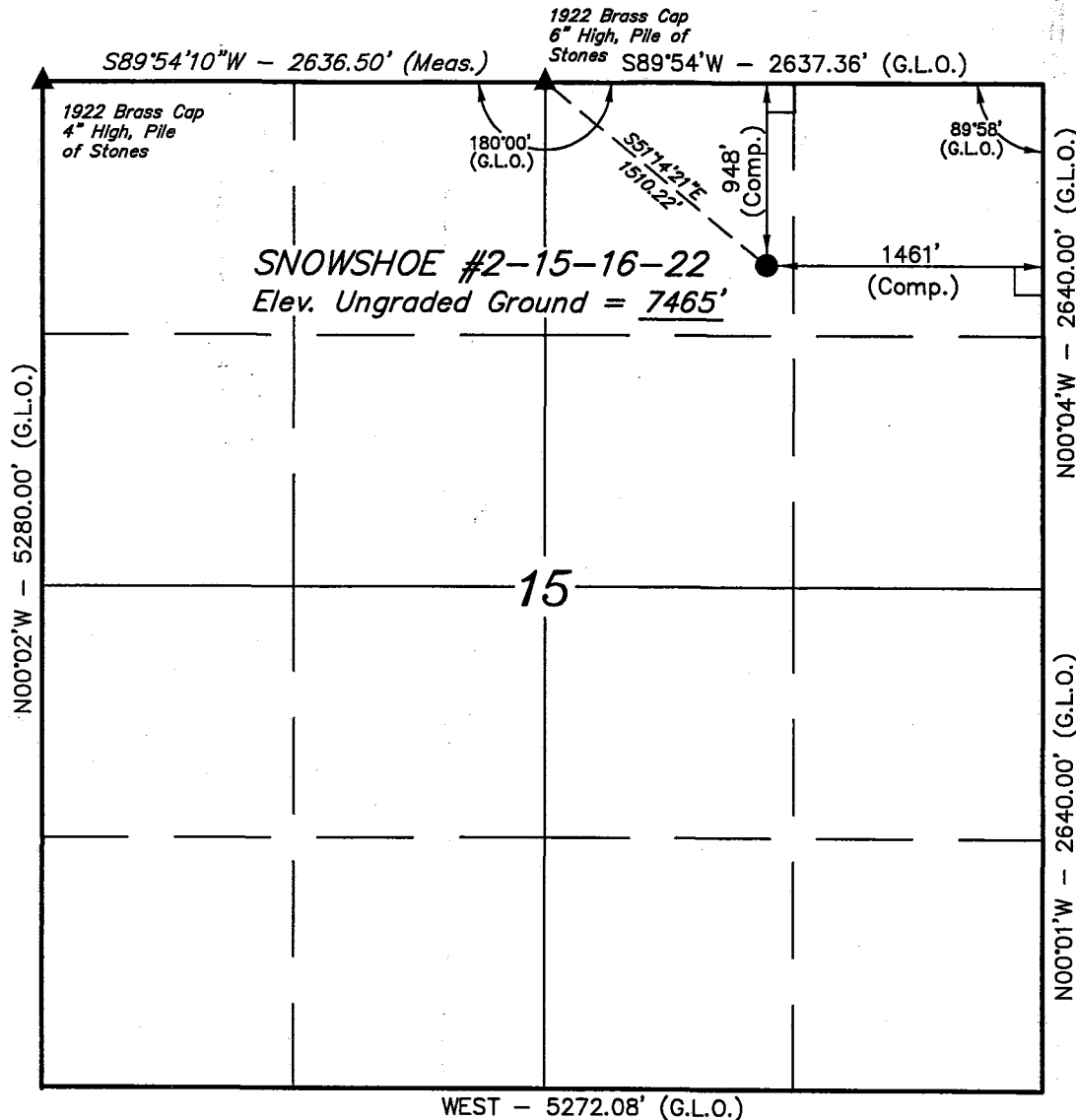
RECEIVED  
AUG 22 2007

API NUMBER ASSIGNED: 43-019-31553

APPROVAL:  
Date: 12-19-07  
By: 

DIV. OF OIL, GAS & MINING

**T16S, R22E, S.L.B.&M.**



**LEGEND:**

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)

LATITUDE = 39°25'13.54" (39.420428)

LONGITUDE = 109°28'25.30" (109.473694)

(AUTONOMOUS NAD 27)

LATITUDE = 39°25'13.66" (39.420461)

LONGITUDE = 109°28'22.85" (109.473014)

**WIND RIVER II CORPORATION**

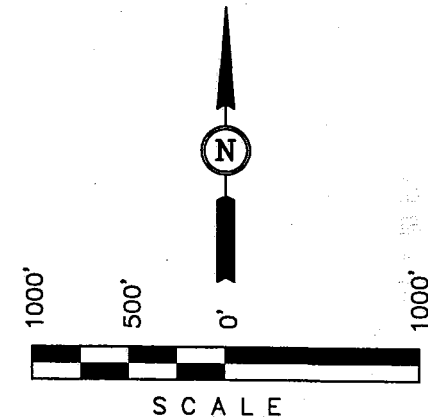
Well location, SNOWSHOE #2-15-16-22, located as shown in the NW 1/4 NE 1/4 of Section 15, T16S, R22E, S.L.B.&M. Grand County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 15, T16S, R22E, S.L.B.&M. TAKEN FROM THE CEDAR CAMP CANYON QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7446 FEET.

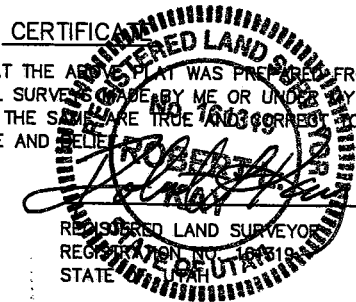
**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**CERTIFICATION**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**UINTAH ENGINEERING & LAND SURVEYING**  
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
**(435) 789-1017**

SCALE 1" = 1000'	DATE SURVEYED: 08-29-05	DATE DRAWN: 09-01-05
PARTY J.F. P.J. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WIND RIVER II CORPORATION	

**DRILLING PLAN  
WIND RIVER II CORP.  
SNOWSHOE 2-15-16-22**

1. Estimated Formation Tops (Depth from Surface):

Green River @ Surface

Wasatch = 2,000'

Mesaverde = 3,581'

Castlegate Sandstone = 5,521' - Gas

Mancos Shale = 5,765' - Gas

Dakota Silt = 9,292' - Gas

Dakota Sandstone = 9,384' - Gas

Cedar Mountain = 9,509' - Gas

Morrison = 9,656' - Gas

Entrada Sandstone = 10,090' - Gas

Carmel = 10,419'

TD = 10,500'



2. Wind River II's Minimum Specification for Pressure Control Equipment and Testing:

- A. 5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached)
- B. BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days. Chart recorders shall be used for all pressure tests.

Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, whichever is less.

Annular-type preventers will be pressure tested to 50% of rated working pressure.

- C. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, prior to drilling plug after cementing. Test pressure not to exceed 70% of the internal yield pressure for the casing.
- D. Wind River II will comply with all requirements for well control specified in the Utah DOG&M Oil & Gas Conservation General Rules. DOG&M representative will be notified 24 hours prior to all BOPE and casing pressure tests.

3. Auxiliary Equipment:

Kelly Cock – Yes

Float Sub at Bit – No

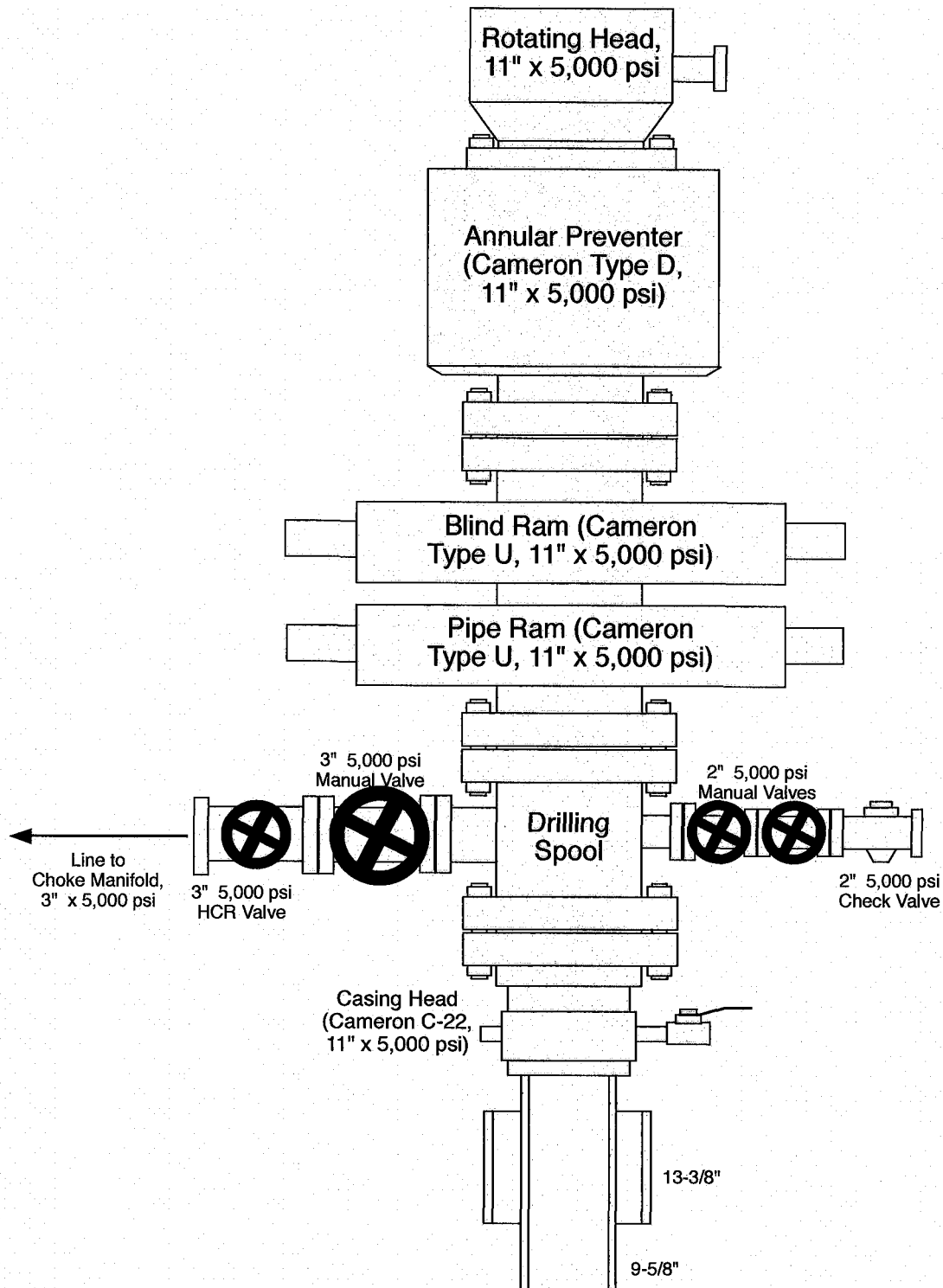
Mud Logger & Instrumentation– Yes

Full-opening Safety Valve on Rig Floor – Yes

Rotating Head – Yes

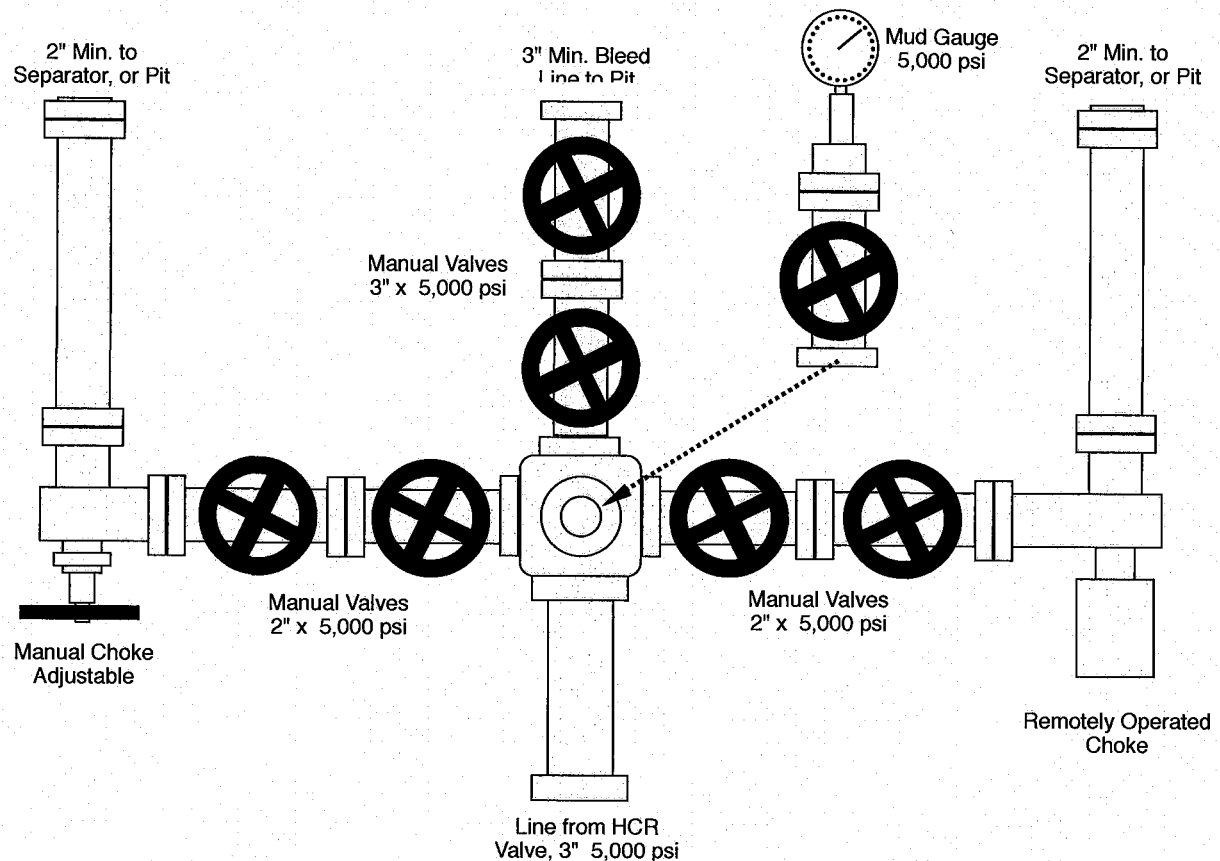
**BOP Configuration for 5,000  
psi Working Pressure**

Page 3A  
Wind River II Corp.  
Snowshoe 2-15-16-22



## Choke Manifold Configuration for 5,000 psi Working Pressure

Page 3B  
Wind River II Corp.  
Snowshoe 2-15-16-22



### Testing Procedure:

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.
4. Casing will be tested to 0.22 psi/ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

4. Casing Program\*:

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Conductor	40'	20"	14"	Contractor	0.250" wall
Surface	<sup>3600'</sup> <del>3,700'</del>	<sup>12-1/4"</sup> <del>12-1/4"</del>	9-5/8"	J-55	36.00# (new)
Production	0'-10,500'	7-7/8"	5-1/2"	P-110	17# (new)

\*Subject to review on the basis of actual conditions encountered.  
Production casing depth will be adjusted based on results.

5. Cement Program\*:

**Conductor – 0-60'**

Ready Mix to surface

**Surface Casing – 0 – <sup>3600'</sup>~~3,700'~~**

Lead: 650 sx HLight Premium w/ 1% CaCl & 0.25 lbm/sk Flocele,  
25% excess

Tail: 250 sx Premium +V (Class G) w/ 1% CaCl & 0.25lbm/sk  
Flocele, 75% excess

Will top with cement down 1" pipe with 50 sx Premium Top Out  
Cement.

Cement Characteristics:

Lead

Yield = 1.80 cu ft per sk

Slurry Weight = 12.8 ppg

Compressive Strength = 500 psi (24 hrs  
@ 80 degrees F)

Tail

Yield = 1.19 cu ft per sk

Slurry Weight = 15.6 ppg

Compressive Strength = 3,000 psi (24 hrs  
@ 80 degrees F)

**Production Casing – 0' - 10,500'**

Option 1 – Two Stage w/ Multiple Stage Cementer at 8,000':

Stage 1: 430 sx 50:50 Poz Premium AG w/ 3 lbm/sk Silicalite, 2% Bentonite, 0.75% Halad R-322 (fluid loss), 3% KCl, 0.2% WG-17 (gelling agent) & 0.25 #/sk Flocele (LCM)

25% excess.

Cement Characteristics: Yield = 1.51 cu ft per sk  
Slurry Weight = 13.4 ppg  
Compressive Strength = 1,125 psi  
(24 hrs @ 140 degrees F)  
= 1,500 psi  
(7 days @ 140 degrees F)

Stage 2 - Lead: 115 sx Hi-Fill

25% excess.

Cement Characteristics: Yield = 3.68  
Slurry Weight  
Compressive

Stage 2  
115 sx @ 3.68 ft<sup>3</sup>/sx = 423  
435 sx @ 1.51 " = 657  
550 → 1.96 1080

Stage 2 – Tail: 435 sx 50/50 Pz Premium  
Bentonite, 0.75% Halad R-322 (fl  
(gelling agent) & 0.25 #/sk Flocele

25% excess

Cement Characteristics: Yield = 1.51  
Slurry Weight = 13.4 ppg  
Compressive Strength = 1,125 psi  
(24 hrs @ 140 degrees F)  
= 1,500 psi  
(7 days @ 140 degrees F)

Option 2 – Single Stage Foamed

Primary: 820 sx 50:50 Poz Premium AG w/ 5 lbm/sk Silicalite, 0.2% Diacel LWL (fluid loss), 20% SSA-1 (cement material), 0.1% Versaset (thixotropic), 1.5% Zonesealant 2000 (foamer) foamed to 11 ppg

Tail: 90 sx 50:50 Poz Premium AG w/ 5 lbm/sk Silicalite, 0.2% Diacel LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset,

**Production Casing – 0' - 10,500'**

Option 1 – Two Stage w/ Multiple Stage Cementer at 8,000':

Stage 1: 430 sx 50:50 Poz Premium AG w/ 3 lbm/sk Silicalite, 2%  
Bentonite, 0.75% Halad R-322 (fluid loss), 3% KCl, 0.2% WG-17  
(gelling agent) & 0.25 #/sk Flocele (LCM)

25% excess.

Cement Characteristics: Yield = 1.51 cu ft per sk  
Slurry Weight = 13.4 ppg  
Compressive Strength = 1,125 psi  
(24 hrs @ 140 degrees F)  
= 1,500 psi  
(7 days @ 140 degrees F)

Stage 2 - Lead: 115 sx Hi-Fill

25% excess.

Cement Characteristics: Yield = 3.68 cu ft per sk  
Slurry Weight = 11 ppg  
Compressive Strength =

Stage 2 – Tail: 435 sx 50/50 Pz Premium AG w/ 3 lbm/sk Silicalite, 2%  
Bentonite, 0.75% Halad R-322 (fluid loss), 3% KCl, 0.2% WG-17  
(gelling agent) & 0.25 #/sk Flocele (LCM)

25% excess

Cement Characteristics: Yield = 1.51 cu ft per sk  
Slurry Weight = 13.4 ppg  
Compressive Strength = 1,125 psi  
(24 hrs @ 140 degrees F)  
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Diacel LWL (fluid loss), 20% SSA-1 (cement material), 0.1%  
Versaset (thixotropic), 1.5% Zonesealant 2000 (foamer) foamed  
to 11 ppg

Tail: 90 sx 50:50 Poz Premium AG w/ 5 lbm/sk Silicalite, 0.2% Diacel  
LWL, 20% SSA-1, 1.5% Zonesealant 2000, 0.1% Versaset,

No abnormal pressures or hydrogen sulfide are anticipated based on operator's drilling to the same formations at similar depths in the Flat Rock Field area, approximately 14 miles to the northwest. Anticipate mud weight of 9.2 ppg at TD.

## **SURFACE USE PLAN WIND RIVER II CORPORATION**

### **SNOWSHOE 2-15-16-22**

1. Existing Roads:

- A. Topographic Map "A" shows the vicinity of the well, including the intersection (Three Pines Jct.) of the Divide, Winter Ridge, Moon Ridge and Hay Canyon roads. This point is reached from Ouray, Utah, on State Road 88, the Seep Ridge Road and the Divide Road. The distance from Ouray to the Seep Ridge/Divide Road intersection is approximately 55 miles. A right turn (to the southwest) onto the Divide Road will lead to Three Pines Jct. in 9.2 miles. Continue approximately 3.3 miles through the junction on the Moon Ridge Road to the Cedar Camp Road on the right (north). Follow the Cedar Camp Road northwest for 2.7 miles to the start of the lease road.

Topographic Map "B" shows the Cedar Camp Road in detail. The point where the lease road departs the existing Cedar Camp Road is approximately 70.2 miles from Ouray. The proposed lease access road will be 0.2 miles.

- B. The Divide and Winter Ridge roads in the Three Pines area suffered serious damage during heavy use in bad weather last winter. Wind River II, along with several other oil companies, Grand County and SITLA (on whose land much of the damaged road was located) applied 4" of shale to these roads during the fall of 2005.

2. Planned Access Road:

Refer to Topographic Map "B".

- A. Length of new road will be approximately 0.2 miles.
- B. The right-of-way width is 50' (25' on either side of the centerline) with a 20-foot wide running surface.
- C. Maximum grade will be less than 2%.



- D. No turn-outs are planned.
- E. The new road will be crowned, ditched and dipped to provide adequate drainage.
- F. No culverts or bridges are anticipated.
- G. Surface material will be shale native to the area or locally obtained limestone or tar sands.
- H. No gates or cattleguards will be needed. Nor will any existing facilities be modified.
- I. The proposed road was flagged when the location was staked.
- J. The authorized officer will be contacted at least 24 hours in advance of commencement of construction of the access road and well pad.

3. Location of Existing Wells:

The nearest well is the operator's Snowshoe 4-15-16-22, located approximately 2,500' to the east-south-east.

4. Location of Existing and/or proposed Facilities:

There are no existing facilities on the proposed well pad. All proposed facilities will be contained within the proposed location site (see attached "Location Layout").

Gas will be transported via the existing Canyon Gas Resources, LLC, 4" line located along the Cedar Camp Road, approximately 0.2 mile from the location. The operator will submit information concerning proposed on and off well pad facilities once production has been established by applying for approval of subsequent operations.

5. Location and Type of Water Supply:

- A. Water for drilling will be purchased from Bert Delambert and hauled by truck from his ranch in Main Canyon.

- B. Water will be transported by truck on the Winter Ridge, Divide, Moon Ridge, Cedar Camp and other existing roads.
  - C. No water well will be drilled.
6. Source of Construction Materials:
- A. It is not anticipated that any construction materials will be needed for the drilling phase of this project. Gravel, shale or road base materials needed to upgrade access roads and well pad will be obtained from a shale pit planned on SITLA land or the PR Springs tar sand pit and trucked to the location.
  - B. The entire well site and all access roads to be upgraded or built are located on lands of the Utah School and Institutional Trust Administration.
  - C. All construction materials used in building the well pad and access road will be native material accumulated during construction. In the event that additional materials are needed, they will be obtained from SITLA land or from private sources.
7. Methods for Handling Waste Disposal
- A. Drill cuttings will be buried in the reserve pit.  
  
Sewage waste will be contained in portable chemical toilets serviced by a commercial sanitary service.  
  
Garbage and trash will be contained in trash baskets and hauled to a sanitary landfill.  
  
Salt and chemicals will be kept in proper containers and salvaged for future use or disposed of at an approved facility.
  - B. Drilling fluids will be contained in the reserve pit and mud tanks. To the extent possible, drilling fluids and water will be saved for use at future drilling locations. Unusable drilling fluids and water will be disposed of in an approved manner upon the completion of the well.
  - C. The reserve pit will be lined with 12 mil plastic nylon reinforced liner installed over sufficient bedding material to cover any exposed rocks.

The pit will be fenced on three sides with 39" net wire, topped with a minimum of one stand of barbed wire. All wire will be stretched prior to attachment to the corner posts. The fourth side will be fenced when drilling activities are completed to allow drying.

8. Ancillary Facilities:

No airstrips will be built. Mobile living quarters and office facilities for supervisors, geologists, mud engineer, mud loggers and air compressor personnel will be confined to the drilling location as shown on the "Location Layout" diagram. The drilling crew will be housed at the Three Canyons Ranch at the bottom of Hay Canyon or in trailers on the drilling location.

9. Well Site Layout:

- A. Refer to attached "Typical Cross Section" diagram for cuts and fills and relation to topography
- B. Refer to "Location Layout" diagram for location of mud tanks, reserve and flare pits, pipe racks, living facilities and top soil stockpiles.
- C. Refer to "Location Layout" diagram for rig orientation, access road and parking area.

10. Plans for Restoration of the Surface:

- A. Producing well location
  - i. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
  - ii. Immediately upon well completion any hydrocarbons on the reserve pit will be removed and disposed of properly.
  - iii. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days of the date of well completion, or as soon thereafter as is practical. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe,

etc, removed. The liner will be perforated and torn prior to backfilling.

- iv. Access roads will be graded and maintained to prevent erosion and accommodate year-round traffic.
- v. All disturbed areas not needed for operations will be seeded with the mixture required by SITLA.

B. Dry Hole/Abandoned Location

At such time as it is determined that the well is to be plugged and abandoned, the operator will submit a subsequent report of abandonment to the Utah DOG&M. The operator will then consult with DOG&M and SITLA to obtain plugging orders.

11. Surface Ownership:

Access roads and location are owned by SITLA and are within the approved Rock Spring Unit..

12. Additional Information:

A. The operator will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and will inform the SITLA archaeologist of the discovery.

- Whether the materials appear to be eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- A time frame for the AO to complete an expedited review under 36 CFR 900.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes at any time to relocate activities to avoid the cost of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be

responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will be allowed to resume construction.

- C. Less than 10,000 pounds of any chemical(s) on EPA's Consolidated List of Chemicals Subject to Reporting Under Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, and less than threshold planning quantity (TPQ) of any extremely hazardous substance(s), as defined in 40 CFR, would be used, produced, transported, stored, disposed of, or associated with the proposed operation.

13. Lessee's or Operator's Representative:

Marc T. Eckels, Vice President  
Wind River II Corporation  
572 Park Avenue, 2<sup>nd</sup> Floor  
P. O. Box 1540  
Park City, UT 84098  
Office – 435-658-0195  
Fax - 435-658-0194  
Cell – 435-901-4217  
Home – 435-649-9295

I have inspected the proposed drill site and access road; am familiar with the conditions which currently exist; the statements made in this plan are true and correct to the best of my knowledge; and the work associated with the operations proposed here will be performed by Wind River II Corporation and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

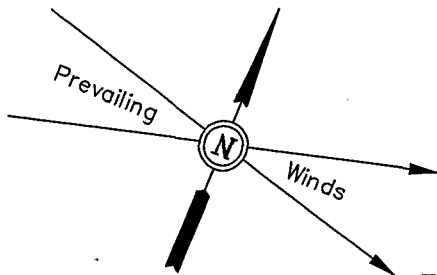
August 22, 2007  
Date

  
Marc T. Eckels  
Vice President

# WIND RIVER II CORPORATION

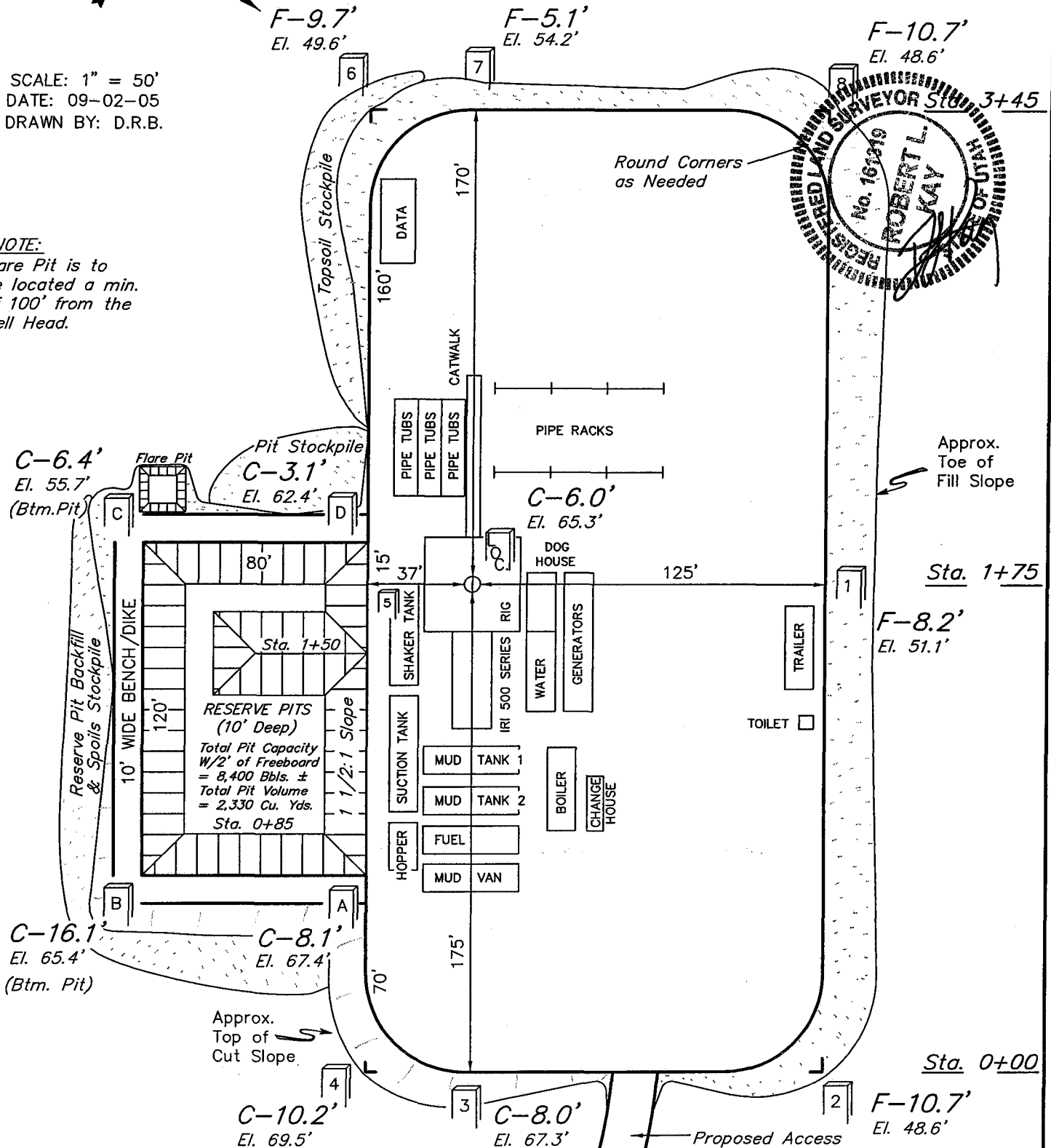
## LOCATION LAYOUT FOR

SNOWSHOE #2-15-16-22  
SECTION 15, T16S, R22E, S.L.B.&M.  
948' FNL 1461' FEL



SCALE: 1" = 50'  
DATE: 09-02-05  
DRAWN BY: D.R.B.

**NOTE:**  
Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.



Elev. Ungraded Ground at Location Stake = 7465.3'  
Elev. Graded Ground at Location Stake = 7459.3'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# WIND RIVER II CORPORATION

## SNOWSHOE #2-15-16-22

LOCATED IN GRAND COUNTY, UTAH

SECTION 15, T16S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

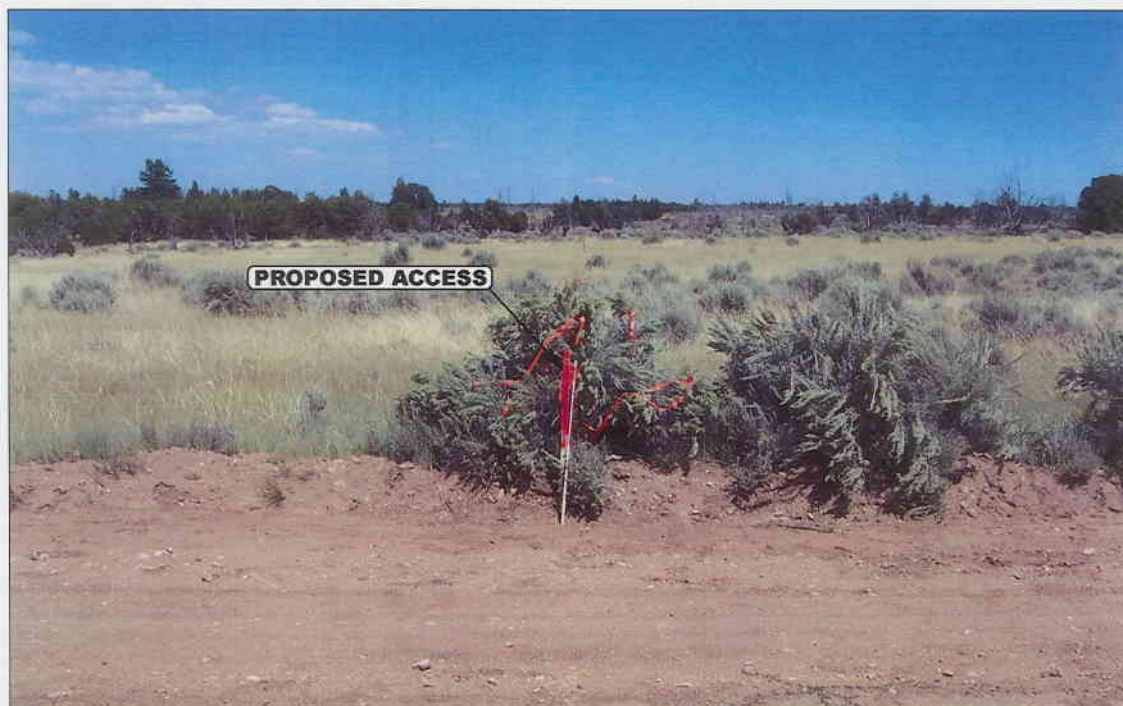


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**08 30 05**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: J.F.

DRAWN BY: B.C.

REVISED: 00-00-00

# WIND RIVER II CORPORATION

## TYPICAL CROSS SECTIONS FOR

SNOWSHOE #2-15-16-22

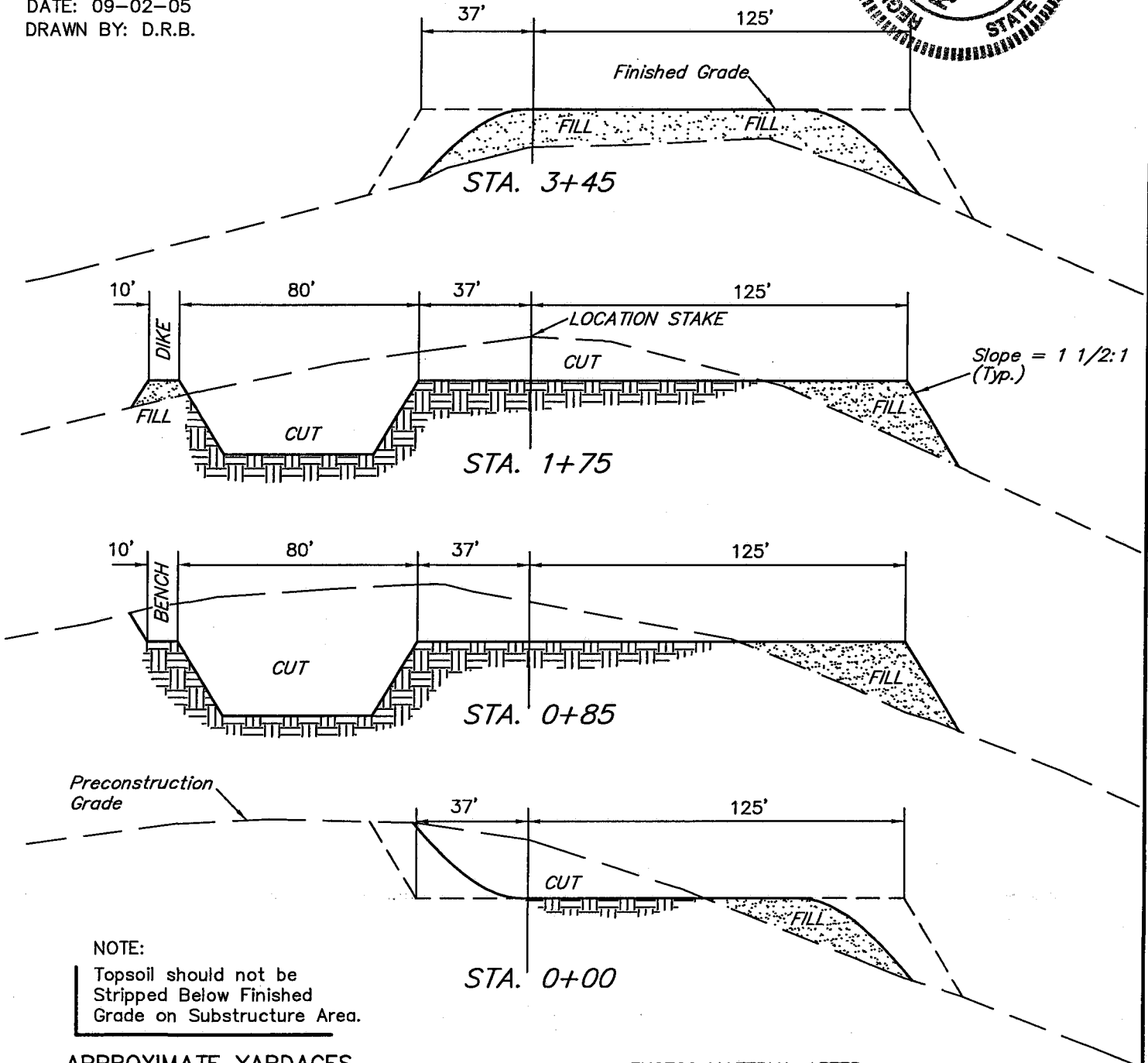
SECTION 15, T16S, R22E, S.L.B.&M.

948' FNL 1461' FEL



1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 09-02-05  
DRAWN BY: D.R.B.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

CUT  
(6") Topsoil Stripping = 1,580 Cu. Yds.  
Remaining Location = 7,680 Cu. Yds.  
TOTAL CUT = 9,260 CU.YDS.  
FILL = 6,510 CU.YDS.

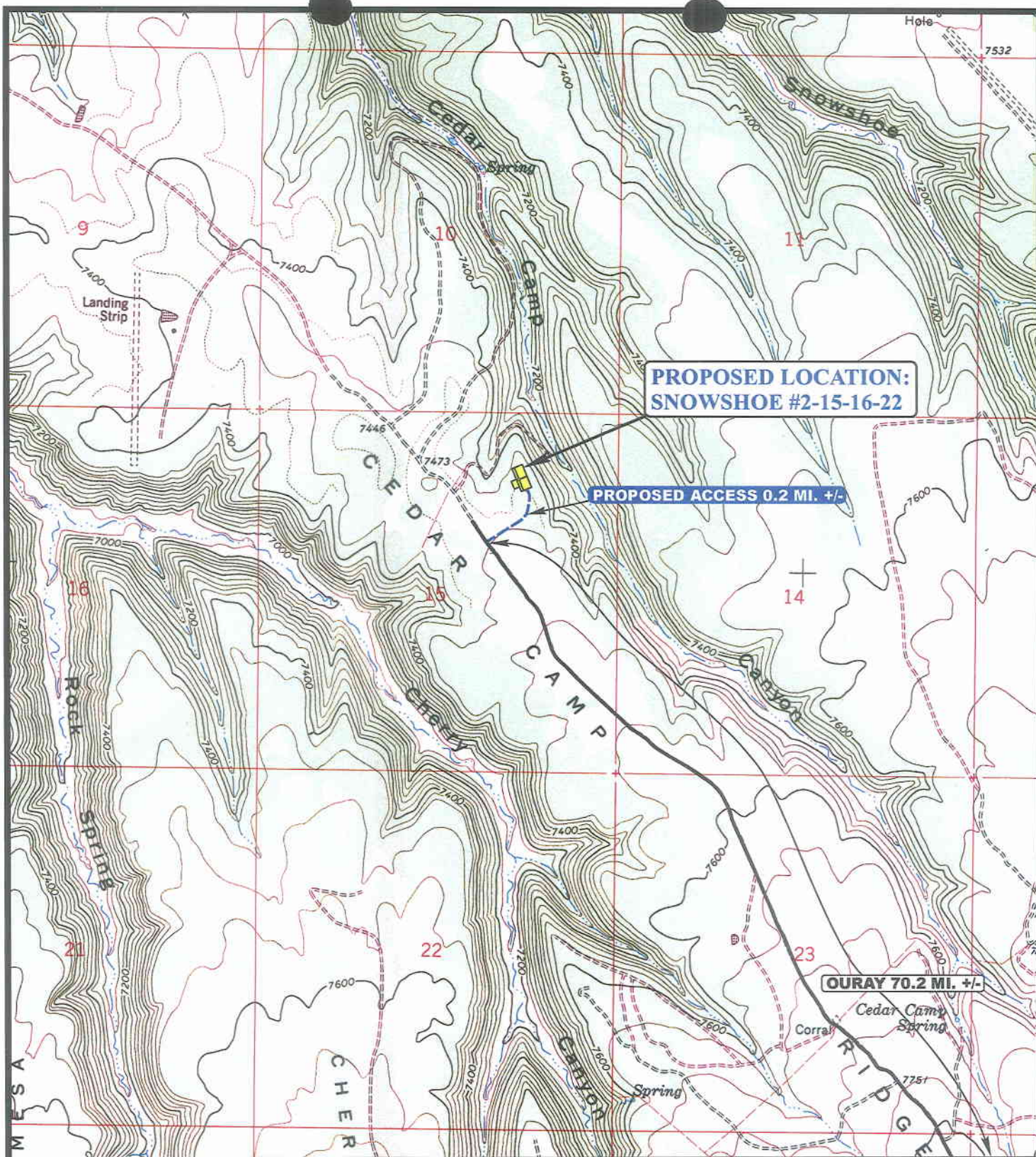
EXCESS MATERIAL AFTER  
5% COMPACTION = 2,750 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 2,750 Cu. Yds.  
EXCESS UNBALANCE  
(After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017









**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

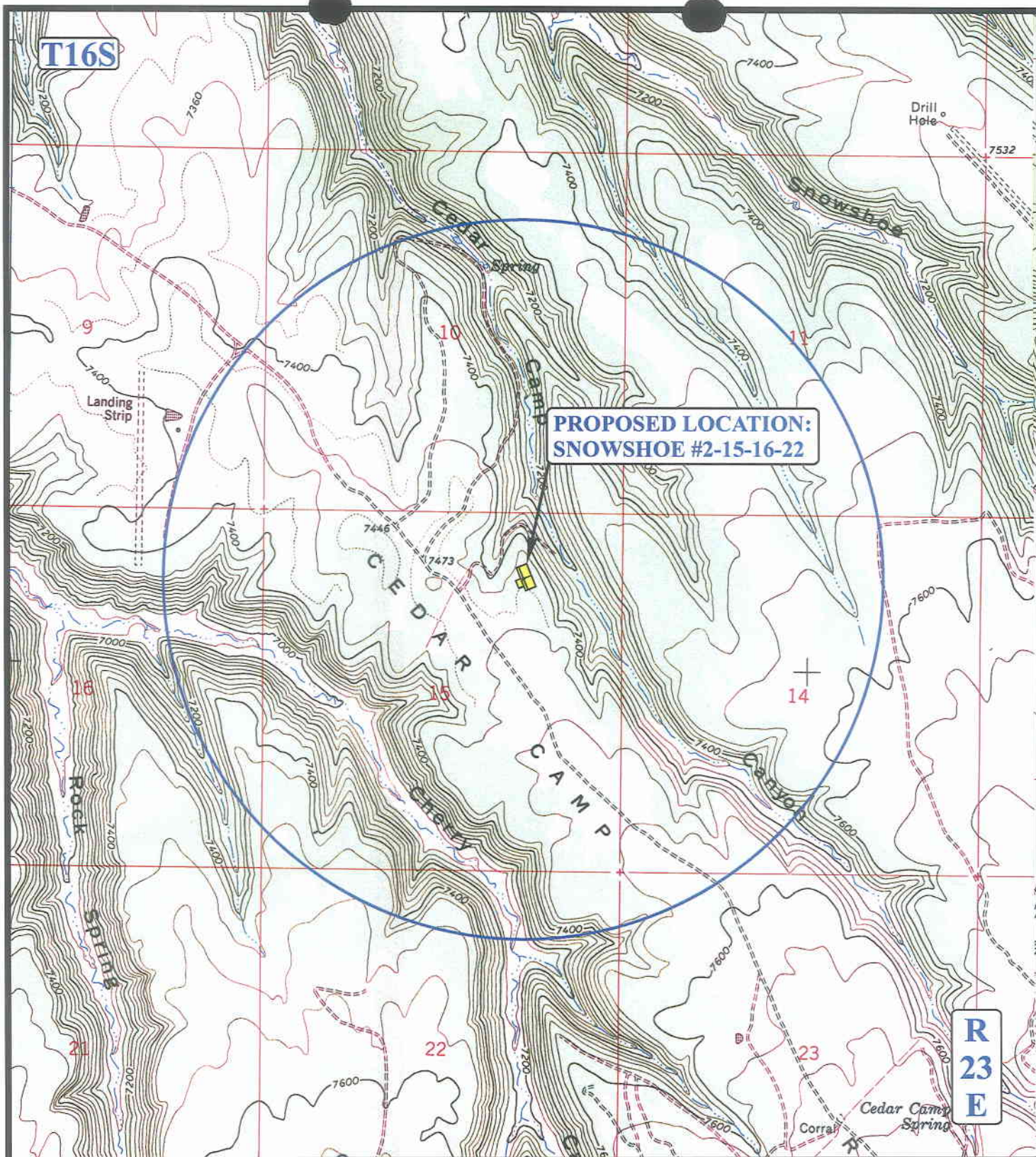
**TOPOGRAPHIC**  
**MAP**

**08 30 05**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.C. REVISED: 00-00-00

**B**  
**TOPO**





### LEGEND:

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



### WIND RIVER II CORPORATION

**SNOWSHOE #2-15-16-22**  
**SECTION 15, T16S, R22E, S.L.B.&M.**  
**948' FNL 1461' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**08 30 05**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.C. REVISED: 00-00-00



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/22/2007

API NO. ASSIGNED: 43-019-31553

WELL NAME: SNOWSHOE 2-15-16-22

OPERATOR: WIND RIVER II ( N2895 )

PHONE NUMBER: 801-466-4131

CONTACT: MARC ECKELS

PROPOSED LOCATION:

NWNE 15 160S 220E

SURFACE: 0948 FNL 1461 FEL

BOTTOM: 0948 FNL 1461 FEL

COUNTY: GRAND

LATITUDE: 39.42044 LONGITUDE: -109.4730

UTM SURF EASTINGS: 631447 NORTHINGS: 4364338

FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DRD	11/8/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47566

SURFACE OWNER: 3 - State

PROPOSED FORMATION: ENRD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0008795 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 49-123 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.  
Unit: ROCK SPRING  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
\_\_\_ R649-3-11. Directional Drill

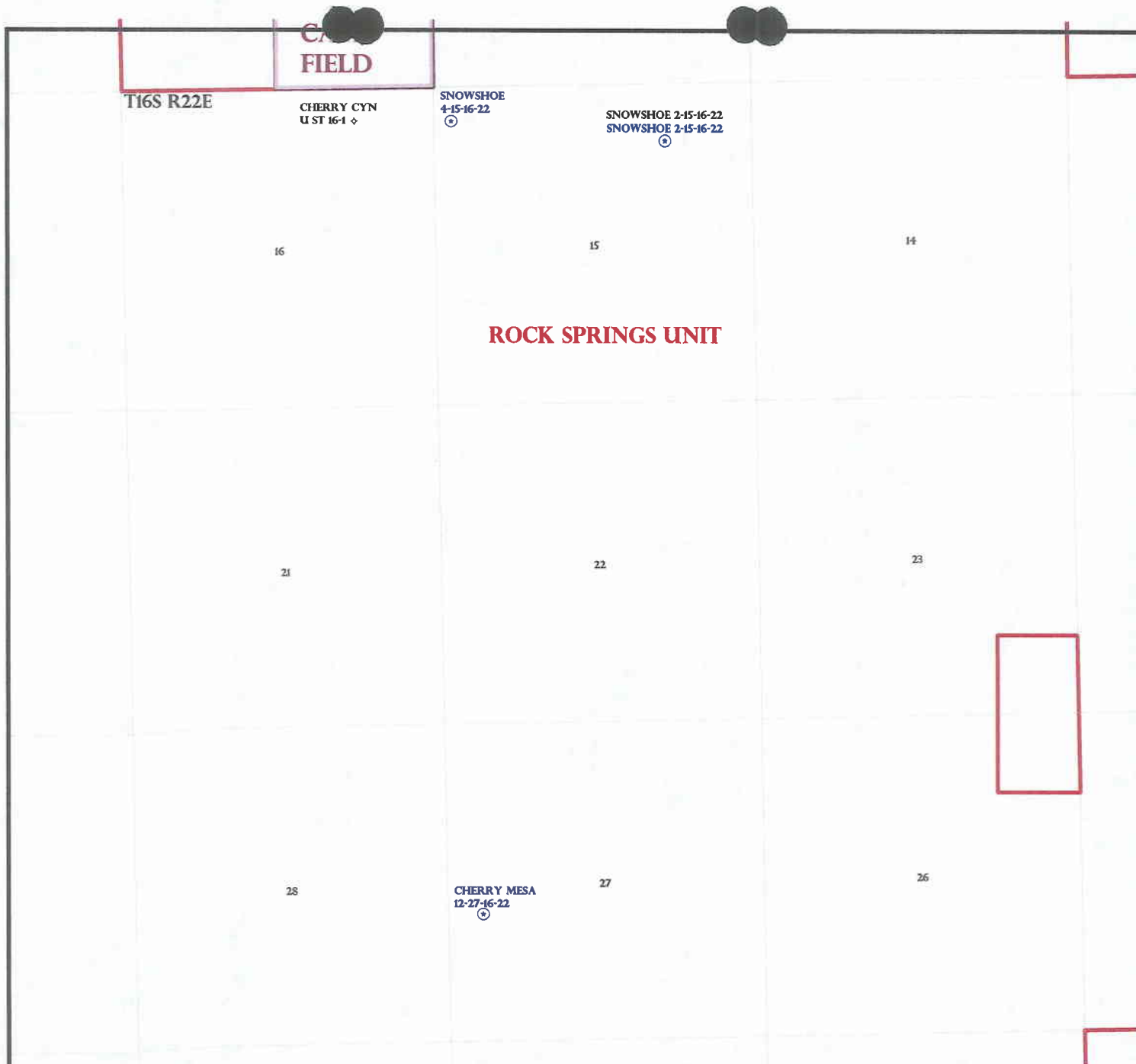
COMMENTS:

Needs Permit (09-28-07)

STIPULATIONS:

1- Spacing Strip  
2- STATEMENT OF BASIS  
3- Surface Cg Cmt stip





OPERATOR: WIND RIVER II CORP (N2895)

SEC: 15 T.16S R. 22E

FIELD: UNDESIGNATED (002)

COUNTY: GRAND

SPACING: R649-3-3 / EXCEPTION LOCATION

#### Field Status

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

#### Unit Status

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

#### Wells Status

- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 4-SEPTEMBER-2007

# Application for Permit to Drill

## Statement of Basis

10/4/2007

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
544	43-019-31553-00-00		GW	S	No
<b>Operator</b>	WIND RIVER II CORPORATION	<b>Surface Owner-APD</b>			
<b>Well Name</b>	SNOWSHOE 2-15-16-22	<b>Unit</b>	Rock Spring		
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 15 16S 22E S 948 FNL 1461 FEL GPS Coord (UTM) 631447E 4364338N				

### Geologic Statement of Basis

Wind River proposes to set 3,600' of surface casing at this location. The base of the moderately saline water is at approximately 4,500 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates no water wells within a 10,000 foot radius of the proposed location. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill

10/4/2007

APD Evaluator

Date / Time

### Surface Statement of Basis

The proposed Snowshoe #2-15-16-22 gas well is on an existing location. The location was constructed for a well with the same name but was never drilled. The permit to drill was rescinded by the Division of Oil, Gas and Mining on March 30, 2007 due to the operators failure to properly submit an application for extension of time. The reserve pit is constructed and lined. Excess drilling fluids and cuttings were hauled in from overflowing reserve pit of the Kelly Cyn 5-8-16-22, while it was being drilled. Conductor casing has been set and rat and mouse hole drilled.

A field visit was made on September 28, 2007 to review a new APD submitted by Wind River II. The following were in attendance: Floyd Bartlett (DOGM), Jim Davis (SITLA), Richard Christensen (Wind River II), , Danniell Emmett (UDWR). The existing pad appears to be stable. No associated runoff or erosion is occurring. The only concern pertains to the adequacy of the reserve pit. Drilling fluids and cuttings were hauled in from overflowing reserve pit of the Kelly Cyn 5-8-16-22 while it was being drilled. Water from this deposit has mostly evaporated. The pit contains drilling cuttings and a small amount of fluid. It is estimated that less than 1/10 of the pit capacity is filled with these cuttings. The integrity of the liner looks good except along the north end of the pit. Here gray threads of the liner are intermittently showing for 60-80 feet along up to a 6-inch band at the previous high water level. The cause of the eroding of liner is not evident. The following options for the reserve pit were mentioned:

1. Excavate the materials and reline the reserve pit.
2. Repair the eroded section of liner with a patch
3. Use pit as it exists but restrict the fluid level to fall below the eroded area.

Floyd Bartlett

9/28/2007

Onsite Evaluator

Date / Time

---

# Application for Permit to Drill

## Statement of Basis

10/4/2007

Utah Division of Oil, Gas and Mining

Page 2

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### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils with a felt subliner shall be properly installed and maintained in the reserve pit or the existing liner may be used following repair of the eroded sections. Methods of repair must be pre-approved by DOGM.
Pits	The existing liner may be used and must be properly maintained. The fluid level of the pit must be maintained at least 4 inches below the lowest damaged or eroded spot of the liner. A red line will be painted on the liner along the bottom of the lowest eroded areas so the level can be easily seen.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** WIND RIVER II CORPORATION  
**Well Name** SNOWSHOE 2-15-16-22  
**API Number** 43-019-31553-0 **APD No** 544 **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNE **Sec** 15 **Tw** 16S **Rng** 22E 948 FNL 1461 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

Floyd Bartlett (DOGM), Jim Davis (SITLA), Richard Christensen (Wind River II), Dannel Emmett (UDWR)

### **Regional/Local Setting & Topography**

The proposed Snowshoe #2-15-16-22 gas well is on an existing location. The location was constructed for a well with the same name but was never drilled. The permit to drill was rescinded by the Division of Oil, Gas and Mining on March 30, 2007 due to the operators failure to properly submit an application for extension of time. The reserve pit is constructed and lined. Excess drilling fluids and cuttings were hauled in from overflowing reserve pit of the Kelly Cyn 5-8-16-22, while it was being drilled. Conductor casing has been set and rat and mouse hole drilled.

A field visit was made on September 28, 2007 to review a new APD submitted by Wind River II. The following were in attendance: Floyd Bartlett (DOGM), Jim Davis (SITLA), Richard Christensen (Wind River II), Dannel Emmett (UDWR). The existing pad appears to be stable. No associated runoff or erosion is occurring. The only concern pertains to the adequacy of the reserve pit. Drilling fluids and cuttings were hauled in from overflowing reserve pit of the Kelly Cyn 5-8-16-22 while it was being drilled. Water from this deposit has mostly evaporated. The pit contains drilling cuttings and a small amount of fluid. It is estimated that less than 1/10 of the pit capacity is filled with these cuttings. The integrity of the liner looks good except along the north end of the pit. Here gray threads of the liner are intermittently showing for 60-80 feet along up to a 6-inch band at the previous high water level. The cause of the eroding of liner is not evident. The following options for the reserve pit were mentioned:

1. Excavate the materials and reline the reserve pit.
2. Repair the eroded section of liner with a patch
3. Use pit as it exists but restrict the fluid level to fall below the eroded area.

### **Surface Use Plan**

**Current Surface Use**  
Existing Well Pad

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Length</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width</b>			

**Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

**Affected Floodplains and/or Wetland**

**Flora / Fauna**

**Soil Type and Characteristics**

**Erosion Issues**



**Sedimentation Issues**

**Site Stability Issues**

**Drainage Diversion Required**

**Berm Required?**

**Erosion Sedimentation Control Required?**

**Paleo Survey Run?**

**Paleo Potential Observed?**

**Cultural Survey Run?**

**Cultural Resources?**

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		20 1 <b>Sensitivity Level</b>

**Characteristics / Requirements**

The thickness of the reserve pit liner is not know, however it is expected to be a 12 mil.

**Closed Loop Mud Required? N    Liner Required? Y    Liner Thickness 12    Pit Underlayment Required? Y**

**Other Observations / Comments**

Daniel Emmett represented the Utah Division of Wildlife Resources. He stated that the area is classified as critical summer fawning and calving habitat for deer and elk. To reduce the disturbance to these animals during this critical period he suggested that road construction, drilling and use of workover rigs not occur from May 15 thru July 15. He gave both Mr. Davis and Mr. Christensen a copy of his wildlife evaluation and a DWR suggested seed mix to be used when the area is reclaimed.

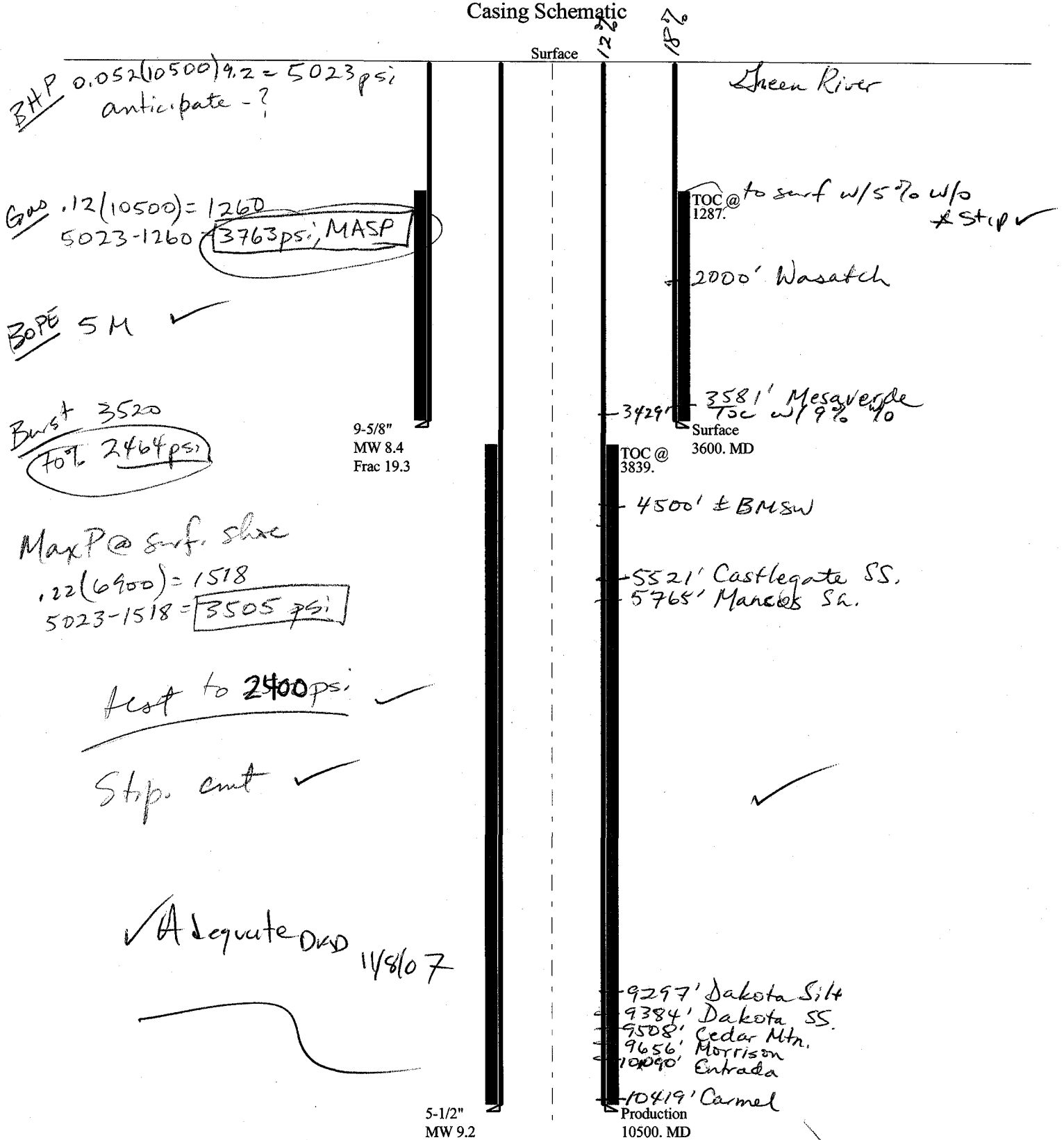
Mr. Christensen said they planned to drill this well this fall.

Floyd Bartlett  
Evaluator

9/28/2007  
Date / Time

# 2007-11 Wind River Snowshoe 2-15-16-22

## Casing Schematic



Well name: **2007-11 Wind River Snowshoe 2-15-16-22**  
 Operator: **Wind River II Corporation**  
 String type: **Surface**  
 Location: **Grand County, Utah**  
 Project ID:  
**43-019-31553**

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 125 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 800 ft

Cement top: 1,287 ft

**Burst**

Max anticipated surface pressure: 3,168 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 3,600 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 3,153 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 10,500 ft  
 Next mud weight: 9.200 ppg  
 Next setting BHP: 5,018 psi  
 Fracture mud wt: 19,250 ppg  
 Fracture depth: 3,600 ft  
 Injection pressure: 3,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3600	9.625	36.00	J-55	ST&C	3600	3600	8.796	1562.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1571	2020	1.286	3600	3520	0.98	113	394	3.47 J

(next pg)

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
 FAX: (801) 359-3940

Date: November 1, 2007  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3600 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>2007-11 Wind River Snowshoe 2-15-16-22</b>	
Operator:	<b>Wind River II Corporation</b>	Project ID:
String type:	Surface	43-019-31553
Location:	Grand County, Utah	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 125 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 800 ft

Cement top: 1,287 ft

**Burst**

Max anticipated surface pressure: 3,168 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 3,600 psi

Annular backup: 8.33 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 3,153 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 10,500 ft  
Next mud weight: 9.200 ppg  
Next setting BHP: 5,018 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,600 ft  
Injection pressure: 3,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3600	9.625	36.00	J-55	ST&C	3600	3600	8.796	1562.6

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1571	2020	1.286	3168	3520	1.11	113	394	3.47 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: November 1, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3600 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	<b>2007-11 Wind River Snowshoe 2-15-16-22</b>	
Operator:	<b>Wind River II Corporation</b>	Project ID:
String type:	<b>Production</b>	<b>43-019-31553</b>
Location:	<b>Grand County, Utah</b>	

**Design parameters:**
**Collapse**

Mud weight: 9.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 222 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 3,839 ft

**Burst**

Max anticipated surface pressure: 2,708 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,018 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 9,035 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10500	5.5	17.00	P-110	LT&C	10500	10500	4.767	1370.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5018	7480	1.491	5018	10640	2.12	154	445	2.90 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: November 1, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10500 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

September 6, 2007

Diana Mason, Petroleum Technician  
Utah Division of Oil, Gas & Mining  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

RECEIVED  
SEP 11 2007  
DIV. OF OIL, GAS & MINING

Re: Request for Location Exception  
Snowshoe 2-15-16-22  
NWNE Sec. 15-T16S-R22E  
Rock Spring Unit  
Grand County

Dear Ms. Mason:

An administrative location exception is requested for the Snowshoe 2-15-16-22 so that the well can be drilled vertically to penetrate a series of anomalies evident in our high resolution Rock Spring 3D seismic survey. We anticipate that the requested location will allow a single well bore to penetrate a combination of amplitude and structural anomalies in the Dakota, Cedar Mountain and Entrada formations that would not be possible from any location within 200' of the center of the quarter-quarter section.

The requested location is approximately 600' to the southeast of the center of the NWNE and approximately 300' outside the allowed window. It is 948' from the nearest lease line, which is a boundary with another lease controlled by Wind River. The distance from the proposed location to the closest minerals not leased to Wind River (SE/4 Sec. 9) is approximately 4,000'.

Please call me if you have any questions or need additional information.

Marc T. Eckels  
Vice President

**From:** Jim Davis  
**To:** Hill, Brad; Hunt, Gil; Mason, Diana  
**Date:** 12/18/2007 4:04 PM  
**Subject:** Well Clearance

**CC:** Bonner, Ed; Garrison, LaVonne  
The following wells have been approved by the Trust Lands Administration.

4301931553 Snowshoe 2-15-16-22 Sec 15, T. 16S R. 22E

4301931554 Cherry Mesa 12-27-16-22 Sec 27, T. 16S R. 22E

Please contact me with any questions you may have. Thanks.  
-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

December 19, 2007

Wind River II Corporation  
1245 E Brickyard Rd.  
Salt Lake City, UT 84106

Re: Snowshoe 2-15-16-22 Well, 948' FNL, 1461' FEL, NW NE, Sec. 15, T. 16 South,  
R. 22 East, Grand County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31553.

Sincerely,

*For* Gil Hunt  
Associate Director

pab  
Enclosures

cc: Grand County Assessor  
SITLA  
Bureau of Land Management, Moab Office





Operator: Wind River II Corporation

Well Name & Number Snowshoe 2-15-16-22

API Number: 43-019-31553

Lease: ML-47566

Location: NW NE Sec. 15 T. 16 South R. 22 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0873 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
7. Surface casing shall be cemented to the surface.



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 26, 2009

Wind River II Corporation  
1245 E Brickyard Rd.  
Salt Lake City, UT 84106



Re: APD Rescinded – Snowshoe 2-15-16-22, Sec.15, T.16S, R. 22E  
Grand County, Utah API No. 43-019-31553


Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 19, 2007. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective February 26, 2009.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

December 1, 2009

Certified Mail No. 70041160000301903652

Wind River II Corporation  
1245 Brickyard Rd #110  
Salt Lake City, UT 84106

Subject: First Notice of Violation for one well Grand County Utah, Sec 15, T.16 S, R 22 E.

Gentlemen:

Per field inspections conducted November 11, 2009 it was observed that the Snowshoe 2-15-16-22 (API# 43-019-31553), operated by Wind River II Corporation is in violation of UT Admin Code R649-3. This letter will serve as Notice of Violation (NOV), to Wind River II Corporation. The Divisions database records this well in Location Abandoned (LA) status, however field inspections confirm the well pad has been built and conductor pipe set.

On February 14, 2006 a pre-site evaluation was conducted for the proposed project area, at that time it was noted the well pad and access road had been constructed without an approved Application for Permit to Drill (APD). On February 16, 2006 the APD was approved.

April 19, 2006 field inspection noted the reserve pit was filled with fluid and had not been fenced. A fence was installed following verbal notification reserve pit was in violation of R649-3-18-2.1. July 14, 2006 field inspections noted drilling mud had been hauled from the Kelly Canyon 5-8-16-22 and disposed of in the reserve pit in violation of R649-9-2-1.2.

Per field inspection conducted July 14, 2006 the proposed project had conductor set, along with mouse and rat holes drilled thus constituting a spud according Definitions in R649-1-1. On March 30, 2007 a letter was sent from the Division to Wind River II Corporation rescinding the APD as "no drilling activity at this location has been reported to the division." The letter goes on to state "If any previously unreported operations have been preformed on this well location, it is imperative that you notify the Division immediately." On June 1, 2007 the Division contacted Mr. Marc Eckels of Wind River II Corporation. Mr. Eckels was informed Wind River II Corporation had 30 days to submit a new APD or reclaim the proposed project site. On July 25, 2007 a formal NOV was issued requiring reclamation of proposed project site or submission of an APD due to lack of response to verbal notification from Wind River II Corporation. An APD was received by the Division on August 22, 2007 and approved on December 19, 2007.



Page 2

December 1, 2009

Subject: First Notice of Violation for one well in Grand County Utah

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On February 26, 2009 the APD was once again rescinded as "no drilling activity at this location has been reported to the division." The letter again state's "If any previously unreported operations have been preformed on this well location, it is imperative that you notify the Division immediately." No correspondence has occurred between Wind River II Corporation and the Division since that time regarding this well. Therefore, Wind River II Corporation is required to submit to the Division within 30 days a Plan of Action outlining how reclamation of the proposed project area will be completed.

Response should be directed to:

Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, UT 84114-5801

If you have questions feel free to contact me at (435) 820-0862.

Sincerely,



Bart Kettle  
Environmental Scientist

BTK/BTK/DJJ

CC: La Vonne Garrison, SITLA  
Dan Jarvis, DOGM  
Clinton Dorshawk, DOGM  
Well File  
Compliance File

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 4A

Bond No. RLB0008795

**SURETY BOND**

KNOW ALL MEN BY THESE PRESENTS:

That we (operator name) Wind River II Corporation as Principal,  
and

(surety name) RLI Insurance Company as Surety, duly authorized  
and qualified to do business in the State of Utah, are held and firmly bound unto the State of Utah in the sum of:

One Hundred Twenty Thousand and no/100 dollars (\$ 120,000.00 )

lawful money of the United States, payable to the Director of the Division of Oil, Gas and Mining, as agent of the State of Utah, for the use and benefit of the State of Utah for the faithful payment of which we bind ourselves, our heirs, executors, administrators and successors, jointly and severally by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS the Principal is or will be engaged in the drilling, redrilling, deepening, repairing, operating, and plugging and abandonment of a well or wells and restoring the well site or sites in the State of Utah for the purposes of oil or gas production and/or the injection and disposal of fluids in connection therewith for the following described land or well:

☒ Blanket Bond: To cover all wells drilled in the State of Utah

☐ Individual Bond: Well No: \_\_\_\_\_  
Section: \_\_\_\_\_ Township: \_\_\_\_\_ Range: \_\_\_\_\_  
County: \_\_\_\_\_, Utah

NOW, THEREFORE, if the above bounden Principal shall comply with all the provisions of the laws of the State of Utah and the rules, orders and requirements of the Board of Oil, Gas and Mining of the State of Utah, including, but not limited to the proper plugging and abandonment of wells and well site restoration, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

IN TESTIMONY WHEREOF, said Principal has hereunto subscribed its name and has caused this instrument to be signed by its duly authorized officers and its corporate or notary seal to be affixed this

31st day of January, 20 06.

(Corporate or Notary Seal here)  
  
Attestee: \_\_\_\_\_ Date: \_\_\_\_\_

Wind River II Corporation

Principal (company name)

By

Name (print)

Title

Signature

IN TESTIMONY WHEREOF, said Surety has caused this instrument to be signed by its duly authorized officers and its corporate or notary seal to be affixed this

31st day of January, 20 06.

(Corporate or Notary Seal here)  
  
Attestee: \_\_\_\_\_ Date: \_\_\_\_\_

RLI Insurance Company

Surety Company (Attach Power of Attorney)

By

Greg E. Chilson, Attorney-in-Fact

Name (print)

Title

Signature

8 Greenway Plaza, Suite 400

Surety Mailing Address

Houston

TX

77046

City

State

Zip

**Thomas J. Sisk & Company, Inc.**  
 1700 Broadway, Suite 1000  
 Denver, CO 80290  
 Phone : 303-831-7100 Fax : 303-831-7377

**Wind River Resources Corp.**  
 Tony Wand  
 1245 E Brickyard Rd Suite 110  
 Salt Lake, UT 84106

<b>INVOICE # 17771</b>		Page 1
ACCOUNT NO.	OP	DATE
WINDRIV	LY	11/19/09
Oil & Gas Bond		
POLICY #		
RLB0008795		
COMPANY		
RLI Insurance Company		
PRODUCER		
Thomas J. Sisk, Jr.		
EFFECTIVE	EXPIRATION	BALANCE DUE ON
01/31/10	01/31/11	01/31/10

Itm #	Eff Date	Trn	Description	Amount
102280	01/31/10	REN	10/11 State of Utah Bond Renew\$	6,000.00
Invoice Balance: \$				6,000.00

WELL / LOCATION: SNOWS HOR, KELLY CANYON, THREE  
 CODE: 395  
 DESC: BOND!  
 Scanned: [Signature]  
 11-23-09  
 JAT, Delp

ENTERED  
 11-23-09

Payment due within 30 days

2050

**WIND RIVER II CORPORATION**

572 PARK AVE., 2ND FLR  
PO BOX 1540  
PARK CITY, UT 84060  
(435) 658-0195

ZIONS FIRST NATIONAL BANK  
PRIVATE BANKING  
SALT LAKE CITY, UTAH 84101  
31-5-1240

11/30/2009

PAY TO THE ORDER OF Thomas J. Sisk & Company, Inc.

\$ \*\*6,000.00

Six Thousand and 00/100

DOLLARS

Thomas J. Sisk & Company, Inc.  
1700 Broadway, Ste 1000  
Denver, Co 80290

MEMO BONDS



**WIND RIVER II CORPORATION**

2050

Thomas J. Sisk & Company, Inc.

Date	Type	Reference	Original Amt.	Balance Due	11/30/2009	Payment
					Discount	
11/19/2009	Bill	17771	6,000.00	6,000.00		6,000.00
				Check Amount		6,000.00

Zions Bank BONDS 6,000.00

**WIND RIVER II CORPORATION**

2050

Thomas J. Sisk & Company, Inc.

Date	Type	Reference	Original Amt.	Balance Due	11/30/2009	Payment
					Discount	
11/19/2009	Bill	17771	6,000.00	6,000.00		6,000.00
				Check Amount		6,000.00

Zions Bank BONDS 6,000.00



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML 47566

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

n/a

7. UNIT or CA AGREEMENT NAME:

Rock Spring Unit

8. WELL NAME and NUMBER:

Snowshoe 2-15-16-22

9. API NUMBER:

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

2. NAME OF OPERATOR:

Wind River II Corporation

3. ADDRESS OF OPERATOR:

1245 E Brickyard Rd, #110

CITY

Salt Lake City

STATE

UT

ZIP

84106

PHONE NUMBER:

(801) 466-4131

10. FIELD AND POOL, OR WILDCAT:

Wildcat (Entrada)

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 948' FNL & 1,461' FEL (NWNE) Sec. 15-T16S-R22E, SLB&M

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 15 16S 22E S

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Well Spud

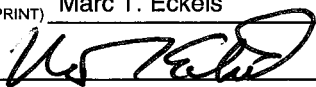
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Snowshoe 2-15-16-22 was spudded on February 17, 2006, by a Pete Martin Drilling, Inc. bucket rig drilling a conductor hole. A 20" hole was drilled to 40' and 14" conductor pipe was set and cemented to the surface with ready mix.

NAME (PLEASE PRINT) Marc T. Eckels

TITLE Vice President

SIGNATURE



DATE

12/15/2009

(This space for State use only)

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Wind River II Corporation Operator Account Number: N 2895  
Address: 1245 East Brickyard Road, Suite 110  
city Salt Lake City  
state UT zip 84106 Phone Number: (801) 466-4131

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
	Snowshoe 2-15-16-22		NWNE	15	16S	22E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	9999					2/17/2009	
<b>Comments:</b> Well spudded by Pete Martin Drilling bucket rig. Set and cemented 40' of 14" conductor pipe. Previous API Numbers 43-019-31464 (2/16/2009) & 43-019-31553 (12/19/2007)							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Marc T. E kels

Name (Please Print)

  
Signature

Vice President

Title

12/15/2009

Date

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: ML 47566	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: Rock Spring Unit	
2. NAME OF OPERATOR: Wind River II Corporation		9. WELL NAME and NUMBER: Snowshoe 2-15-16-22	
3. ADDRESS OF OPERATOR: <u>Suite 110</u> 1245 E Brickyard Rd CITY Salt Lake City STATE UT ZIP 84106		PHONE NUMBER: (801) 466-4131	10. FIELD AND POOL, OR WILDCAT: <del>Wildcat (Entrada)</del> Undesignated
4. LOCATION OF WELL (FOOTAGES) <u>631447 X 4364338 Y 39.420439 -109.472990</u> AT SURFACE: 948' FNL & 1,461' FEL (NENE) Sec. 15-T16S-R22E, SLB&M AT PROPOSED PRODUCING ZONE: same		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 15 16S 22E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 45 miles NE of Green River & 65 SE of Roosevelt		12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 948'	16. NUMBER OF ACRES IN LEASE: 2,560	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 80	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3.580' to Operator's Snowshoe 4-15-16-22	19. PROPOSED DEPTH: 10,600	20. BOND DESCRIPTION: Surety RLB0008795	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 7,465' (GR)	22. APPROXIMATE DATE WORK WILL START: 8/1/2010	23. ESTIMATED DURATION: 35 days	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12.25"	9.625"	J-55	36#	3,400	Lead: Lite Prem Plus	1,005 sx 1.82 cu ft/sk	12.8 ppg
					Tail: Prem Plus V	280 sx 1.19 cu ft /sk	15.6 ppg
7.875"	4.5"	HCP-110	11.6#	10,600	See Drilling Plan		

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

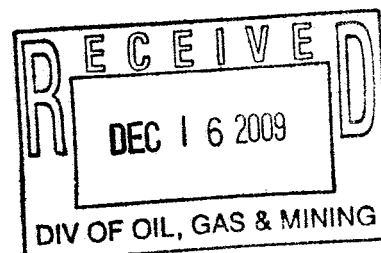
NAME (PLEASE PRINT) Marc T. Eckels TITLE Vice President  
SIGNATURE [Signature] DATE 12/15/2009

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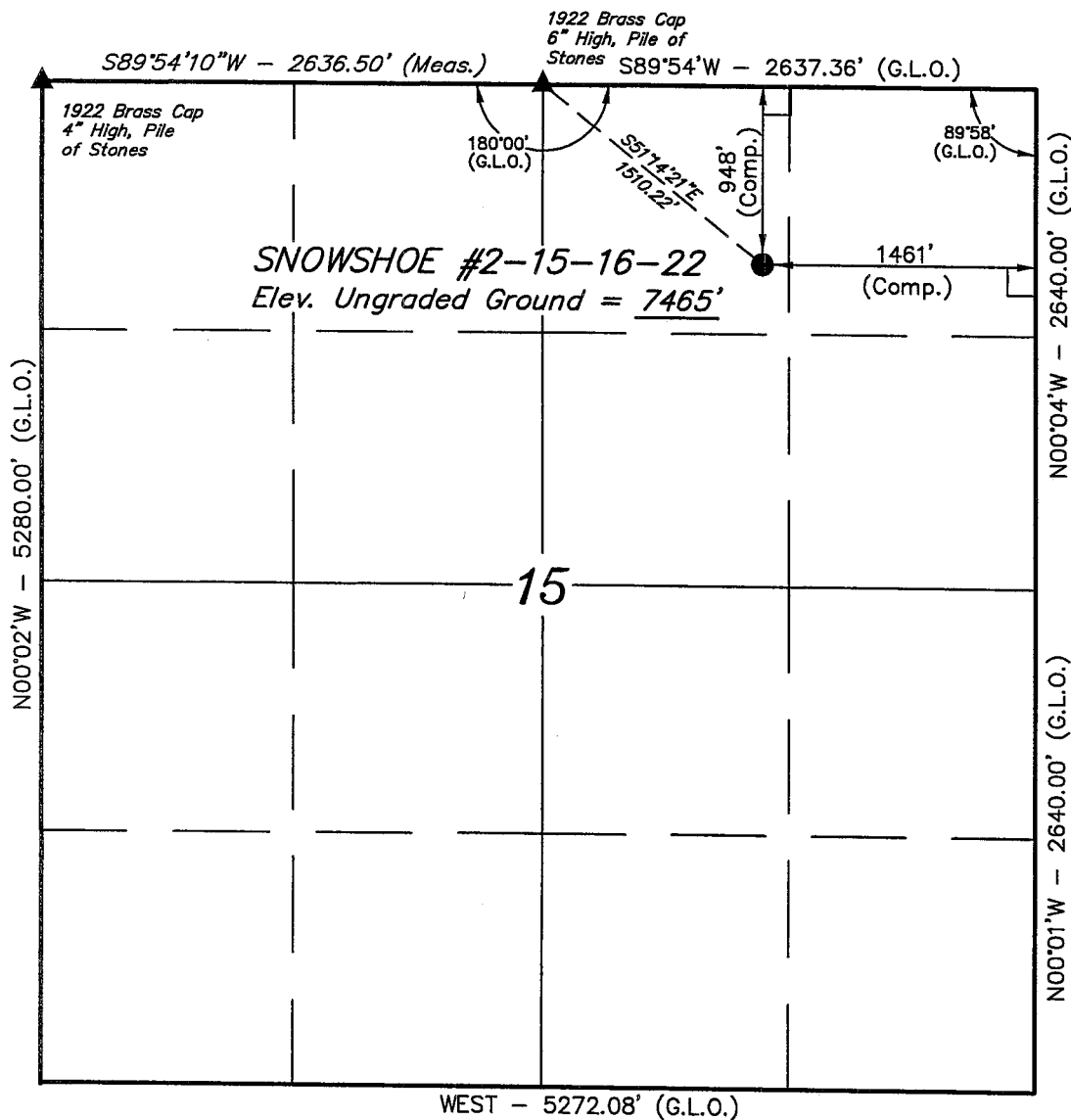
API NUMBER ASSIGNED: 43019-31553

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-04-10  
By: [Signature]



**T16S, R22E, S.L.B.&M.**



**LEGEND:**

└─ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)

LATITUDE = 39°25'13.54" (39.420428)

LONGITUDE = 109°28'25.30" (109.473694)

(AUTONOMOUS NAD 27)

LATITUDE = 39°25'13.66" (39.420461)

LONGITUDE = 109°28'22.85" (109.473014)

**WIND RIVER II CORPORATION**

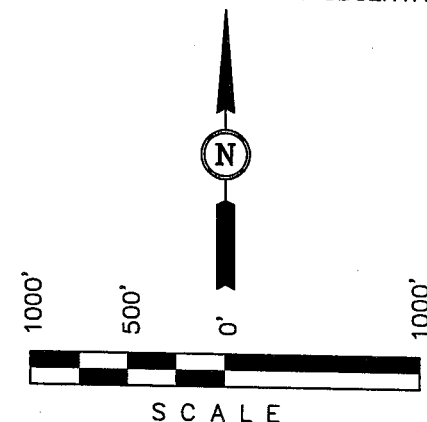
Well location, SNOWSHOE #2-15-16-22, located as shown in the NW 1/4 NE 1/4 of Section 15, T16S, R22E, S.L.B.&M. Grand County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 15, T16S, R22E, S.L.B.&M. TAKEN FROM THE CEDAR CAMP CANYON QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7446 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 08-29-05	DATE DRAWN: 09-01-05
PARTY J.F. P.J. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WIND RIVER II CORPORATION	



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

December 15, 2009

Diana Mason, Petroleum Technician  
Utah Division of Oil, Gas & Mining  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Request for Location Exception  
Snowshoe 2-15-16-22  
NWNE Sec. 15-T16S-R22E  
Rock Spring Unit  
Grand County

Dear Ms. Mason:

An administrative location exception is requested for the Snowshoe 2-15-16-22 so that this vertical well can be located to penetrate a series of anomalies evident in the high resolution 3D seismic survey that Wind River II Corporation acquired in the field during the fall of 2004. We anticipate that the requested location will allow a single well bore to penetrate a combination of amplitude and structural anomalies in the Dakota, Cedar Mountain and Entrada formations that would not be possible from any location within 200' of the center of the quarter-quarter section.

The requested location is approximately 600' to the southeast of the center of the NWNE and approximately 300' outside the allowed window. It is 948' from the nearest lease line, which is a boundary with another lease controlled by Wind River. The distance from the proposed location to the closest minerals not leased to Wind River is approximately 4,000'.

Please call me if you have any questions or need additional information.

A handwritten signature in black ink, appearing to read "Marc T. Eckels".

Marc T. Eckels  
Vice President



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

RECEIVED

DEC 16 2009

DIV. OF OIL, GAS & MINING

December 15, 2009

Diana Mason, Petroleum Technician – Permitting  
Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Snowshoe 2-15-16-22 APD & Other Matters  
NWNE Section 15-T16S-R22E  
Grand County, UT

Dear Ms. Mason:

The Snowshoe 2-15-16-22 was originally permitted as an Entrada wildcat well in the Rock Spring Unit with an APD approval date of February 16, 2006. It was to have been the third of several wells that we permitted at about the same time. We built the location, along with the other two well locations, one right after the other so that we would not have to mob and demob the required heavy equipment repeatedly.

On February 17, 2006, a dry hole digger drilled a conductor hole to 40' and set and cemented 14" conductor pipe in the hole. This was the spud of the well, although I failed to recognize it as such and sent the Division neither a spud notice nor an Entity Action Form.

On the basis of our drilling experience with the first two wells, we decided to focus our early efforts in the Rock Spring Unit on the slightly shallower Dakota and Cedar Mountain formations. We staked, permitted and subsequently drilled the Snowshoe 4-15-16-22, which will be a Dakota/Cedar Mountain/Morrison producer approximately 3,580' to the west of the Snowshoe 2-15-16-22. The original Snowshoe 2-15 APD expired on February 16, 2007. However, the location had been built and technically the well had been spudded. We re-permitted the well with an effective date of December 19, 2007. Obviously, that permit has also expired.

We delayed drilling new wells in the Rock Spring Unit because the gathering pipeline that we anticipated would be built into our area did not materialize and we had drilled three wells from which we could not sell gas. In August 2008, we started selling gas from the first well into the new Energy Transfer Partners

pipeline. Due to the economy and the price of natural gas, we have been unable to complete the other two existing wells or drill new wells during 2009.

We expect both the economy and the price of natural gas to recover, and we fully intend to complete the existing wells and resume drilling when they do. The Snowshoe 2-15-16-22 remains a viable Entrada wildcat prospect and it will get drilled. Reclaiming the existing location would be a waste of money and simply delay the project further.

Bart Kettle cited us on December 1, 2009, because we have a drilling location built and a well spudded with no permit in place. My discussion of the situation with Bart resulted in the attached package. Basically, he agreed that we can keep the existing location ready for drilling by submitting a new APD and a spud notice with the actual spud date. He will address his regulatory concerns in the Conditions of Approval that will be attached to the APD when it is approved. This will get an APD in place and will recognize that the well has been spudded. I will then file quarterly Sundry Notices keeping the Division informed of our progress. I believe that Bart will stipulate that we commence drilling operations by September 1, 2010.

I also realize that I should have filed an Entity Action Form at the time of spud. I have discussed this with Earlene Russell, who suggested that I include the Form 6 in this package with a note to the effect that you will pass it on to her when the APD has been approved.

The enclosed package contains two copies each of the new APD and the spud notice Sundry and one copy each of the Entity Action Form and the updated Request for Location Exception. I have also enclosed evidence of our bond (copy of Surety Bond RLB0008795 and our most recent renewal.

Water for drilling and completing this well will be purchased from Bert Delambert under Water Right 49-123.

There will be no new surface disturbance when we drill this well, as both the location and the access road already exist. SITLA has previously agreed that the cultural resources survey conducted for the 40-square mile seismic survey that we shot in 2004 adequately covered both the drilling location and the access road. The location construction pre-dated the requirement for a paleontological survey. I assume that we will not be required to perform such a survey on disturbed ground. We did perform a paleo survey in 2008 for the portion of the gathering system that ran cross-county (away from the existing road system) and found nothing of significance.

I apologize to the Division, and to you, for my failure to handle this situation properly. I appreciate the work that you all do and am sorry to have added to it unnecessarily. This package should get the Snowshoe 2-15-16-22 properly



permitted. I will work with Bart Kettle after the APD has been approved to make certain that we are in compliance with whatever COAs are attached.

Please call me if you have any questions or need any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Marc T. Eckels', written in a cursive style.

Marc T. Eckels

Cc: Lavonne Garrison, SITLA

**DRILLING PLAN  
WIND RIVER II CORP.  
SNOWSHOE 2-15-16-22**

1. Estimated Formation Tops (Depth from Surface):

Green River @ Surface

Wasatch = 1,848'

Mesaverde = 3,367'

Castlegate Sandstone = 5,591' - Gas

Mancos Shale = 5,883' - Gas

Dakota Silt = 9,377' - Gas

Dakota Sandstone = 9,460' - Gas

Cedar Mountain = 9,584' - Gas

Morrison = 9,726' - Gas

Entrada Sandstone = 10,244' - Gas

Carmel = 10,523'

TD = 10,600'

2. Wind River II's Minimum Specification for Pressure Control Equipment and Testing:

- A. 5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached)
- B. BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days. Chart recorders shall be used for all pressure tests.

Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, whichever is less.

Annular-type preventers will be pressure tested to 50% of rated working pressure.

- C. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, prior to drilling plug after cementing. Test pressure not to exceed 70% of the internal yield pressure for the casing.
- D. Wind River II will comply with all requirements for well control specified in the Utah DOG&M Oil & Gas Conservation General Rules. DOG&M representative will be notified 24 hours prior to all BOPE and casing pressure tests.

3. Auxiliary Equipment:

Kelly Cock – Yes

Float Sub at Bit – No

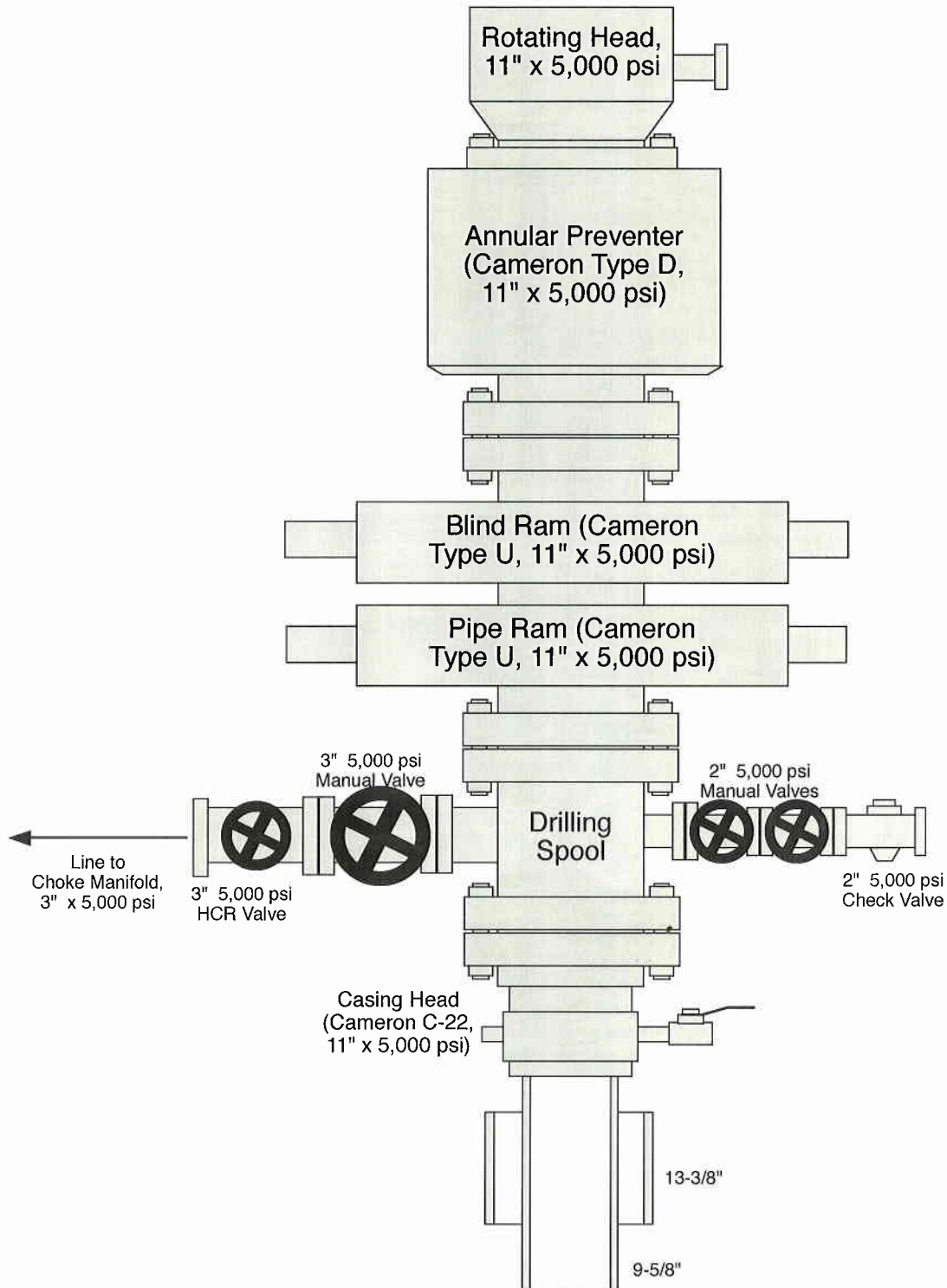
Mud Logger & Instrumentation– Yes

Full-opening Safety Valve on Rig Floor – Yes

Rotating Head – Only if drilling with aerated fluid

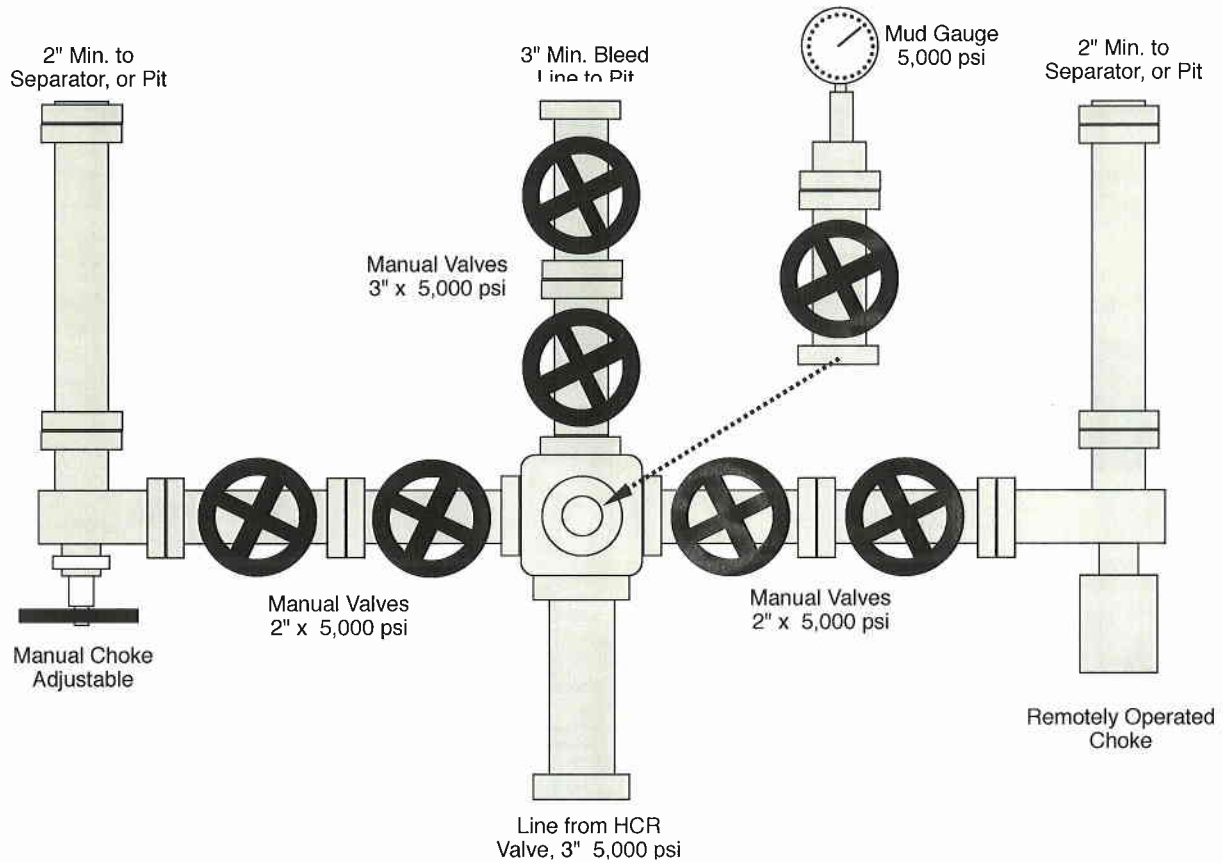
**BOP Configuration for 5,000  
psi Working Pressure**

Page 3A  
Wind River II Corp.  
Snowshoe 2-15-16-22



## Choke Manifold Configuration for 5,000 psi Working Pressure

Page 3B  
Wind River II Corp.  
Snowshoe 2-15-16-22



### Testing Procedure:

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.
4. Casing will be tested to 0.22 psi/ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

4. Casing Program\*:

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Conductor	40'	20"	14"	Contractor	0.250" wall
Surface	3,400'	12-1/4"	9-5/8"	J-55	36.00# (new)
Production	0'-10,600'	7-7/8"	4-1/2"	HCP-110	11.6# (new)

\*Subject to review on the basis of actual conditions encountered.  
Production casing depth will be adjusted based on results.

5. Cement Program:

**Conductor – 0-40'**

Ready Mix to surface

**Surface Casing – 0 – 3,400'**

Lead: 1,005 sx Lt Premium Plus w/ 0.125#/sk Polyflake & 1% CaCl

Tail: 280 sx Prem Plus V w/ 0.125#/sk Polyflake & 1% CaCl

100% Excess. Will top with Premium Top Out cement down 1" pipe, as needed.

Cement Characteristics: Lead

Yield = 1.82 cu ft per sk

Slurry Weight = 12.8 ppg

Compressive Strength = 900 psi (24 hrs @  
80 degrees F)

Tail

Yield = 1.19 cu ft per sk

Slurry Weight = 15.6 ppg

Compressive Strength = 3,400 psi (24 hrs @  
80 degrees F)

**Production Casing – 0'- 10,600'**

Lead: 1,170 sx 50/50 Pozmix w/ 5#/sk Silicalite, 20% SSA-1, 0.2%  
Halad-766, 0.1% Versaset, 1.5% Zonesalant 2000, foamed to  
11.0 ppg w/ nitrogen

Tail: 115 sx 50/50 Pozmix w/ 5#/sk Silicalite, 20% SSA-1, 0.2%

Halad-766, 0.1% Versaset, (no foam)

30% Excess. Actual cement volumes will be based on caliper log calculations and drilling experience.

Cement Characteristics: Yield = 1.35 cu ft per sk  
Slurry Weight (not foamed) = 14.3 ppg  
Slurry Weight (foamed) = 11.0 ppg  
Compressive Strength  
Foamed Lead = 900 psi  
(24 hrs @ 140 degrees F)  
Non-foamed Tail = 1,400 psi  
(24 hrs @ 140 degrees F)

Actual cement volumes will be based on caliper log calculations and drilling experience.

6. Testing, Logging, Coring:

- A. Drill Stem Tests – none anticipated
- B. Electric Logs – DIFL/SP/GR from TD to surface  
SDL/CNL/CAL w/ DFIL from TD to 3,200'
- C. Coring – Possible sidewall coring in the Dakota,  
Cedar Mountain, Morrison & Entrada.

7. Drilling Fluids:

Well will be drilled with a low solids non-dispersed mud. In the event of severe lost circulation, the mud may be aerated. *next P*

8. Abnormal Pressures and Hazards:

No abnormal pressures or hydrogen sulfide are anticipated based on operator's drilling to the same formations at similar depths 3,580' to the west (Snowshoe 4-15-16-22). Anticipate mud weight of 9.2 ppg at TD.



## **SURFACE USE PLAN WIND RIVER II CORPORATION**

### **SNOWSHOE 2-15-16-22**

1. Existing Roads:

- A. Topographic Map "A" shows the vicinity of the well, including the intersection (Three Pines Jct.) of the Divide, Winter Ridge, Moon Ridge and Hay Canyon roads. This point is reached from Ouray, Utah, on State Road 88, the Seep Ridge Road and the Divide Road. The distance from Ouray to the Seep Ridge/Divide Road intersection is approximately 55 miles. A right turn (to the southwest) onto the Divide Road will lead to Three Pines Jct. in 9.2 miles. Continue approximately 3.3 miles through the junction on the Moon Ridge Road to the Cedar Camp Road on the right (north). Follow the Cedar Camp Road northwest for 2.7 miles to the start of the lease road.

Topographic Map "B" shows the Cedar Camp Road in detail. The point where the lease road departs the existing Cedar Camp Road is approximately 70.2 miles from Ouray. The proposed lease access road will be 0.2 miles.

2. Planned Access Road (this road was built under previous APD):

Refer to Topographic Map "B".

- A. Length of new road is approximately 0.2 miles.
- B. The right-of-way width is 50' (25' on either side of the centerline) with a 20-foot wide running surface.
- C. Maximum grade is less than 2%.
- D. No turn-outs are planned.
- E. The new road will be crowned, ditched and dipped to provide adequate drainage.
- F. No culverts or bridges are anticipated. Surface material will be shale native to the area or locally obtained limestone or tar sands.

- G. No gates or cattleguards will be needed. Nor will any existing facilities be modified.
- H. The proposed road was flagged when the location was staked.
- I. The authorized officer will be contacted at least 24 hours in advance of commencement of construction of the access road and well pad.

3. Location of Existing Wells:

The nearest well is Wind River II's Snowshoe 4-15-16-22, located approximately 3,580' to the west. This well will be completed in the Dakota, Cedar Mountain and Morrison formations.

4. Location of Existing and/or proposed Facilities:

There are no existing facilities on the proposed well pad. All proposed facilities will be contained within the proposed location site (see attached "Location Layout").

Gas will be transported via the existing Energy Transfer Partners 4" line located along the Cedar Camp Road, approximately 0.2 mile from the location. The operator will submit information concerning proposed on and off well pad facilities once production has been established by applying for approval of subsequent operations.

5. Location and Type of Water Supply:

- A. Water for drilling will be purchased from Bert Delambert (Water Right #49-123) and hauled by truck from his ranch in Main Canyon.
- B. Water will be transported by truck on the Winter Ridge, Divide, Moon Ridge, Cedar Camp and other existing roads.
- C. No water well will be drilled.

6. Source of Construction Materials:

- A. It is not anticipated that any construction materials will be needed for the drilling phase of this project. Gravel, shale or road base materials needed to upgrade access roads and well pad will be obtained from a shale pit planned on SITLA land or the PR Springs tar sand pit and trucked to the location.
- B. The entire well site and all access roads to be upgraded or built are located on lands of the Utah School and Institutional Trust Administration.
- C. All construction materials used in building the well pad and access road will be native material accumulated during construction. In the event that additional materials are needed, they will be obtained from SITLA land or from private sources.

7. Methods for Handling Waste Disposal

- A. Drill cuttings will be buried in the reserve pit.

Sewage waste will be contained in portable chemical toilets serviced by a commercial sanitary service.

Garbage and trash will be contained in trash baskets and hauled to a sanitary landfill.

Salt and chemicals will be kept in proper containers and salvaged for future use or disposed of at an approved facility.

- B. Drilling fluids will be contained in the reserve pit and mud tanks. To the extent possible, drilling fluids and water will be saved for use at future drilling locations. Unusable drilling fluids and water will be disposed of in an approved manner upon the completion of the well.
- C. The reserve pit will be lined with 12 mil plastic nylon reinforced liner installed over sufficient bedding material to cover any exposed rocks.

The pit will be fenced on three sides with 39" net wire, topped with a minimum of one stand of barbed wire. All wire will be stretched prior to attachment to the corner posts. The fourth side will be fenced when drilling activities are completed to allow drying.

8. Ancillary Facilities:

No airstrips will be built. Mobile living quarters and office facilities for supervisors, geologists, mud engineer, mud loggers, drilling crew and air compressor personnel will be confined to the drilling location as shown on the "Location Layout" diagram.

9. Well Site Layout:

- A. Refer to attached "Typical Cross Section" diagram for cuts and fills and relation to topography
- B. Refer to "Location Layout" diagram for location of mud tanks, reserve and flare pits, pipe racks, living facilities and top soil stockpiles.
- C. Refer to "Location Layout" diagram for rig orientation, access road and parking area.

10. Plans for Restoration of the Surface:

- A. Producing well location
  - i. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
  - ii. Immediately upon well completion any hydrocarbons on the reserve pit will be removed and disposed of properly.
  - iii. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days of the date of well completion, or as soon thereafter as is practical. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc, removed. The liner will be perforated and torn prior to backfilling.
  - iv. Access roads will be graded and maintained to prevent erosion and accommodate year-round traffic.
  - v. All disturbed areas not needed for operations will be seeded with the mixture required by SITLA.

B. Dry Hole/Abandoned Location

At such time as it is determined that the well is to be plugged and abandoned, the operator will submit a subsequent report of abandonment to the Utah DOG&M. The operator will then consult with DOG&M and SITLA to obtain plugging orders.

11. Surface Ownership:

Access roads and location are owned by SITLA and are within the approved Rock Spring Unit.

12. Additional Information:

A. The operator will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and will inform the SITLA archaeologist of the discovery.

- Whether the materials appear to be eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- A time frame for the AO to complete an expedited review under 36 CFR 900.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes at any time to relocate activities to avoid the cost of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will be allowed to resume construction.

C. Less than 10,000 pounds of any chemical(s) on EPA's Consolidated List of Chemicals Subject to Reporting Under Title III of the Superfund

Amendments and Reauthorization Act (SARA) of 1986, and less than threshold planning quantity (TPQ) of any extremely hazardous substance(s), as defined in 40 CFR, would be used, produced, transported, stored, disposed of, or associated with the proposed operation.

13. Lessee's or Operator's Representative:

Marc T. Eckels, Vice President  
Wind River II Corporation  
1245 East Brickyard Road, Suite 110  
Salt Lake City, UT 84106  
Office – 801-466-4131  
Fax - 801-466-4132  
Cell – 435-901-4217  
Home – 435-649-9295

I have inspected the proposed drill site and access road; am familiar with the conditions which currently exist; the statements made in this plan are true and correct to the best of my knowledge; and the work associated with the operations proposed here will be performed by Wind River II Corporation and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

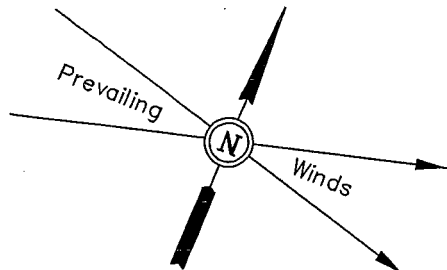
December 15, 2009  
Date

  
Marc T. Eckels  
Vice President

# WIND RIVER II CORPORATION

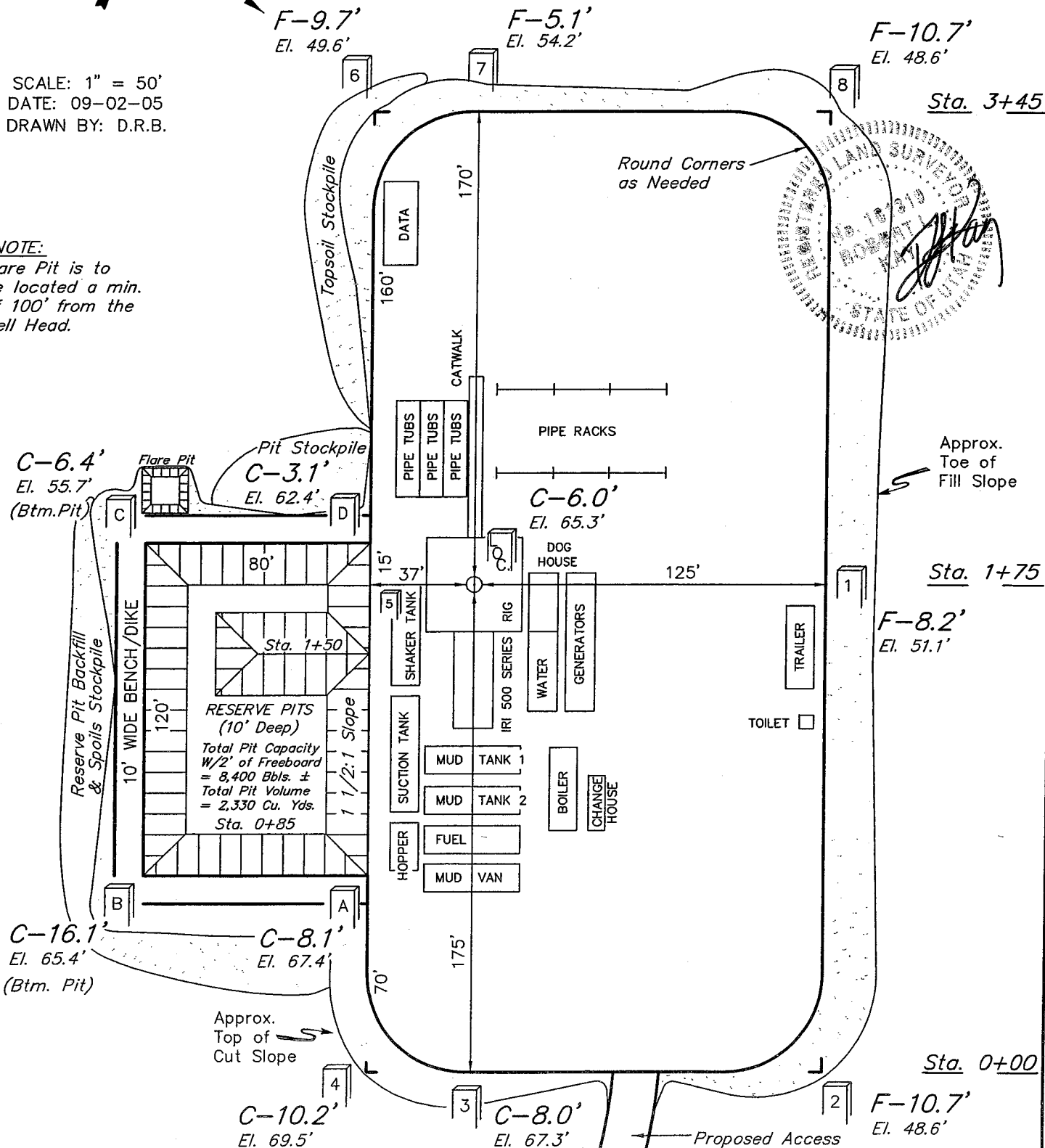
## LOCATION LAYOUT FOR

SNOWSHOE #2-15-16-22  
SECTION 15, T16S, R22E, S.L.B.&M.  
948' FNL 1461' FEL



SCALE: 1" = 50'  
DATE: 09-02-05  
DRAWN BY: D.R.B.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



Elev. Ungraded Ground at Location Stake = 7465.3'  
Elev. Graded Ground at Location Stake = 7459.3'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



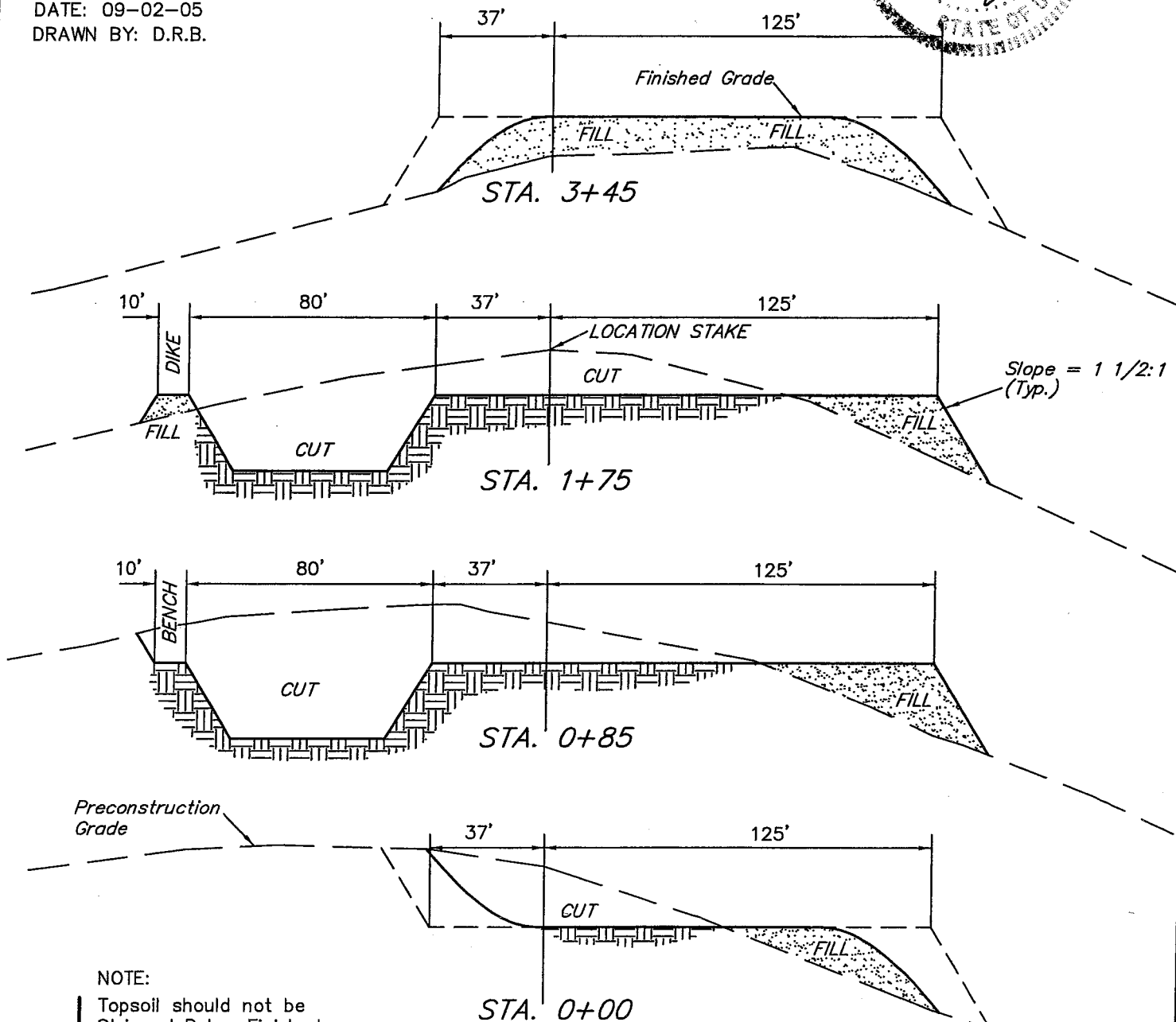
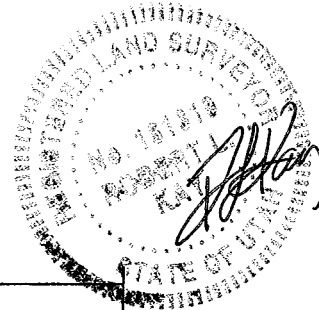
# WIND RIVER II CORPORATION

## TYPICAL CROSS SECTIONS FOR

SNOWSHOE #2-15-16-22  
SECTION 15, T16S, R22E, S.L.B.&M.  
948' FNL 1461' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 09-02-05  
DRAWN BY: D.R.B.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

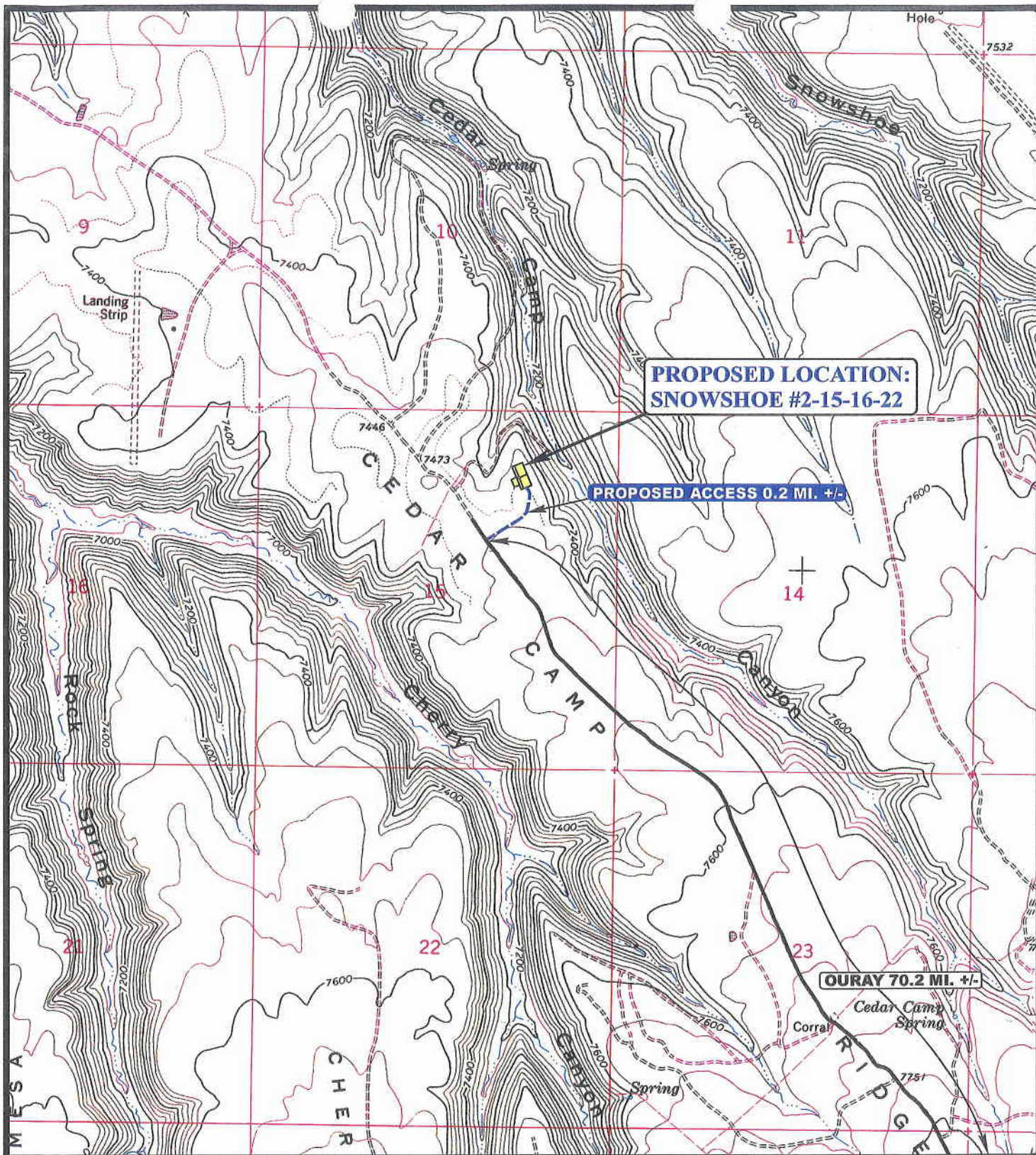
CUT	
(6") Topsoil Stripping	= 1,580 Cu. Yds.
Remaining Location	= 7,680 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 9,260 CU.YDS.</b>
<b>FILL</b>	<b>= 6,510 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,750 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,750 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017













# WIND RIVER II CORPORATION

## SNOWSHOE #2-15-16-22

LOCATED IN GRAND COUNTY, UTAH

SECTION 15, T16S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**08 30 05**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: J.F.

DRAWN BY: B.C.

REVISED: 00-00-00

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/16/2009

API NO. ASSIGNED: 43-019-31553

WELL NAME: SNOWSHOE 2-15-16-22

OPERATOR: WIND RIVER II ( N2895 )

PHONE NUMBER: 801-466-4131

CONTACT: MARC ECKELS

PROPOSED LOCATION:

NWNE 15 160S 220E

SURFACE: 0948 FNL 1461 FEL

BOTTOM: 0948 FNL 1461 FEL

COUNTY: GRAND

LATITUDE: 39.42044 LONGITUDE: -109.47299

UTM SURF EASTINGS: 631447 NORTHINGS: 4364338

FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	Dick	1/20/10
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47566

SURFACE OWNER: 3 - State

PROPOSED FORMATION: ENRD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0008795 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 49-123 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.  
Unit: ROCK SPRING *OK*  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*Needs Permit (12-29-09)*

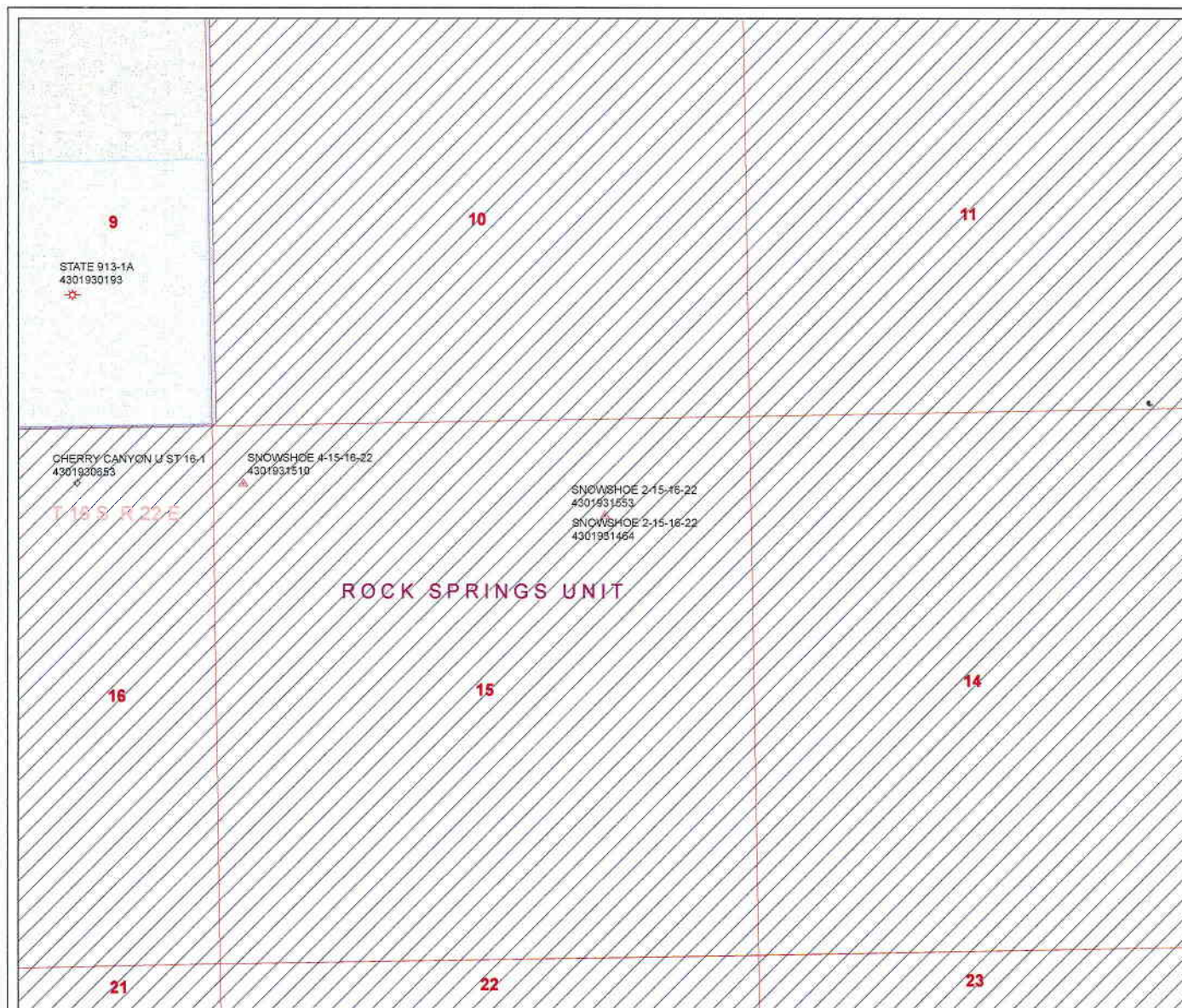
STIPULATIONS:

*1- Spacing Strip*

*2- STATEMENT OF BASIS*

*3- Cement St. off 3a (4 1/2" production, 3200' MD, Base of Moderately Saline Groundwater)*





API Number: 4301931553

Well Name: SNOWSHOE 2-15-16-22

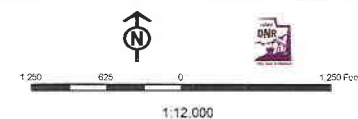
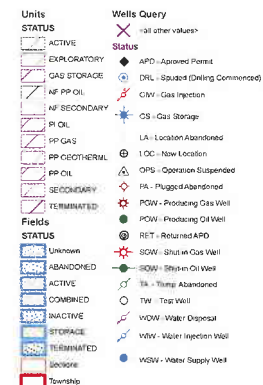
Township 16.0 S Range 22.0 E Section 15

Meridian: SLBM

Operator: WIND RIVER II CORPORATION

Map Prepared:

Map Produced by Diana Mason



**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**CC:** Garrison, LaVonne; Hunt, Gil  
**Date:** 2/3/2010 4:28 PM  
**Subject:** Well approvals (2)

The following wells have been approved by SITLA including arch and paleo clearance.  
XTO's RBU 25-16E (4304740585)

Wind River II's Snowshoe 2-15-16-22 (4301931553).

Thanks.  
-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



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# **Application for Permit to Drill**

## **Statement of Basis**

### **Utah Division of Oil, Gas and Mining**

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1/19/2010

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
2252	43-019-31553-00-00		GW	S	No
<b>Operator</b>	WIND RIVER II CORPORATION	<b>Surface Owner-APD</b>			
<b>Well Name</b>	SNOWSHOE 2-15-16-22	<b>Unit</b>	ROCK SPRING		
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 15 16S 22E S 948 FNL 1461 FEL GPS Coord (UTM) 631447E 4364338N				

#### **Geologic Statement of Basis**

Wind River proposes to set 3,600' of surface casing at this location. The base of the moderately saline water is at approximately 4,500 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates no water wells within a 10,000 foot radius of the proposed location. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill  
**APD Evaluator**

10/4/2007  
**Date / Time**

#### **Surface Statement of Basis**

The proposed Snowshoe 2-15-16-22 gas well is on an existing well pad constructed prior to February 14, 2006. Site has two previous onsite evaluations completed February 14, 2006 and September 28, 2007. Per observations made at the September 28, 2007 onsite evaluation the existing well pad appears adequate for the proposed drilling operations.

Conductor casing has been set along with rat and mouse hole drilled. Pending approval of Current APD# 2252 submission of original spud report is required.

Reserve pit was lined prior to February 14, 2006, liner has since deteriorated beyond repair and now requires replacement. Solids currently contained by the reserve pit appear to have originated from drilling activities at the Kelly Canyon 5-8-16-22 well prior to July 14, 2006. As such, solids are considered E&P waste, composition testing will be required to determine appropriate method for handling prior to re-lining reserve pit.

The reserve pit has been constructed and contained E&P waste for nearly four years without the completion of drilling activity. Lack of a transport pipeline and suppressed price of natural gas have been cited as a driving forces in delaying commencement of drilling activity. Wind River II Corporation has requested delaying reserve pit reclamation. It has been the Division of Oil, Gas and Mining's observation that reserve pits remaining open for periods longer then a year frequently become unauthorized disposal sites, entrap wildlife and livestock, and threaten human health or the environment. As such, the reserve pit shall be reclaimed September 1, 2010. In the event drilling activities are commenced prior to September 1, 2010, the reserve pit will require reclamation within one year following the completion of drilling activities. In the interim period, fencing around the reserve pit shall be maintained to deter entry by livestock and wildlife.

Bart Kettle  
**Onsite Evaluator**

12/29/2009  
**Date / Time**

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# **Application for Permit to Drill**

## **Statement of Basis**

### **Utah Division of Oil, Gas and Mining**

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1/19/2010

Page 2

#### **Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	E&P solids contained by reserve pit shall be tested prior to removal to determine proper method of handling.
Pits	Reserve pit shall be reclaimed by September 1, 2010.
Surface	The reserve pit shall be fenced.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** WIND RIVER II CORPORATION  
**Well Name** SNOWSHOE 2-15-16-22  
**API Number** 43-019-31553-0 **APD No** 2252 **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNE **Sec** 15 **Tw** 16S **Rng** 22E 948 FNL 1461 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

None, onsite visit conducted 09/28/2009 for proposed well of the same name at this site. Approval has since been rescinded and APD resubmitted.

### **Regional/Local Setting & Topography**

Proposed project site is 45 miles northeast of Green River in Grand County Utah. Site overlooks the western rim of Cedar Camp Canyon on Cedar Camp Ridge. Precept zone is a 14-16" zone and is located in a mixture of Mountain Big Sage, Pinyon/Juniper and Mountain Browse rangelands. Deep rocky pinyon/juniper, Douglas fir and mountain browse canyons surround the proposed project site. Topography to the south rises to the Bookcliff divide, and then drops off quickly into a narrow band of P/J woodlands, with extensive salt scrub clay flats in the Cisco Desert below. Slopes are more gradual to the north, with extensive P/J woodlands eventually giving way to the salt scrub communities bordering the White and Green Rivers. Perennial and intermittent springs are shown on 7.5 min maps near the bottom of adjacent canyons. Access to the well site can be gained via Grand County Rd 194 (Hay Canyon Road), Grand County Rd 209 (Bookcliff Divide Road), and Grand County Rd 210 (Cedar Camp Road).

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width 252</b>		<b>GRRV</b>
	<b>Length 345</b>		

#### **Ancillary Facilities N**

None being proposed for drilling of well. Mobile living quarters of personal will be confined to the well pad according to APD.

### **Waste Management Plan Adequate? N**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetland N**

#### **Flora / Fauna**

None, existing well pad.

#### **Soil Type and Characteristics**

Gray shale and clays decomposed from shale's.

#### **Erosion Issues N**

#### **Sedimentation Issues N**

#### **Site Stability Issues N**

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?** N

**Reserve Pit**

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
Final Score		25    1    Sensitivity Level

**Characteristics / Requirements**

Reserve pit existing from construction activities pre-dating original onsite evaluation conducted 02/14/2006. 07/14/2006 drilling fluids noted in the reserve pit from Kelly Canyon 5-8-16-22 well. Fluids have since evaporated, leaving a substantial amount of solids in the pit. Liner has sun rotted and is not capable of holding fluids, therefore pit will require additional lining. Prior to lining, accumulated solids will require composition testing to determine proper disposal/reclamation method.

**Closed Loop Mud Required** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** Y

**Other Observations / Comments**

At onsite evaluation conducted 09/28/2007 Utah Division of Wildlife Resources submitted the following comments:  
-Project area is classified as critical summer fawning and calving habitat of deer and elk. It was recommended that no activity occur from May 15 thru July 15.

Approval of APD #2252 for the Snowshoe 2-15-16-22 and reporting of spud will resolve NOV issued to Wind River II Corporation on December 1, 2009 by the Division of Oil, Gas and Mining.

Bart Kettle  
Evaluator

12/29/2009  
Date / Time

## BOPE REVIEW

Wind River Snowshoe 2-14-16-22

API 43-019-31553-0000

## INPUT

Well Name

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

Wind River Snowshoe 2-14-16-22		API 43-019-31553-0000	
String 1	String 2		
9 5/8	4 1/2		
3400	10600		
40	3400		
8.33	9.2	✓	
500	5000		
3520	10690		
5088	9.2 ppg	✓	

## Calculations

String 1 9 5/8 "

Max BHP [psi]

.052\*Setting Depth\*MW = 1473

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 1065

NO

Air Drill

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 725

NO

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 734

NO

No expected pressure

Required Casing/BOPE Test Pressure

2464

psi

\*Max Pressure Allowed @ Previous Casing Shoe =

40

psi

\*Assumes 1psi/ft frac gradient

## Calculations

String 2 4 1/2 "

Max BHP [psi]

.052\*Setting Depth\*MW = 5071

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 3799

YES

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 2739

YES

a.k.

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 3487

NO

o.k.

Required Casing/BOPE Test Pressure

5000

psi

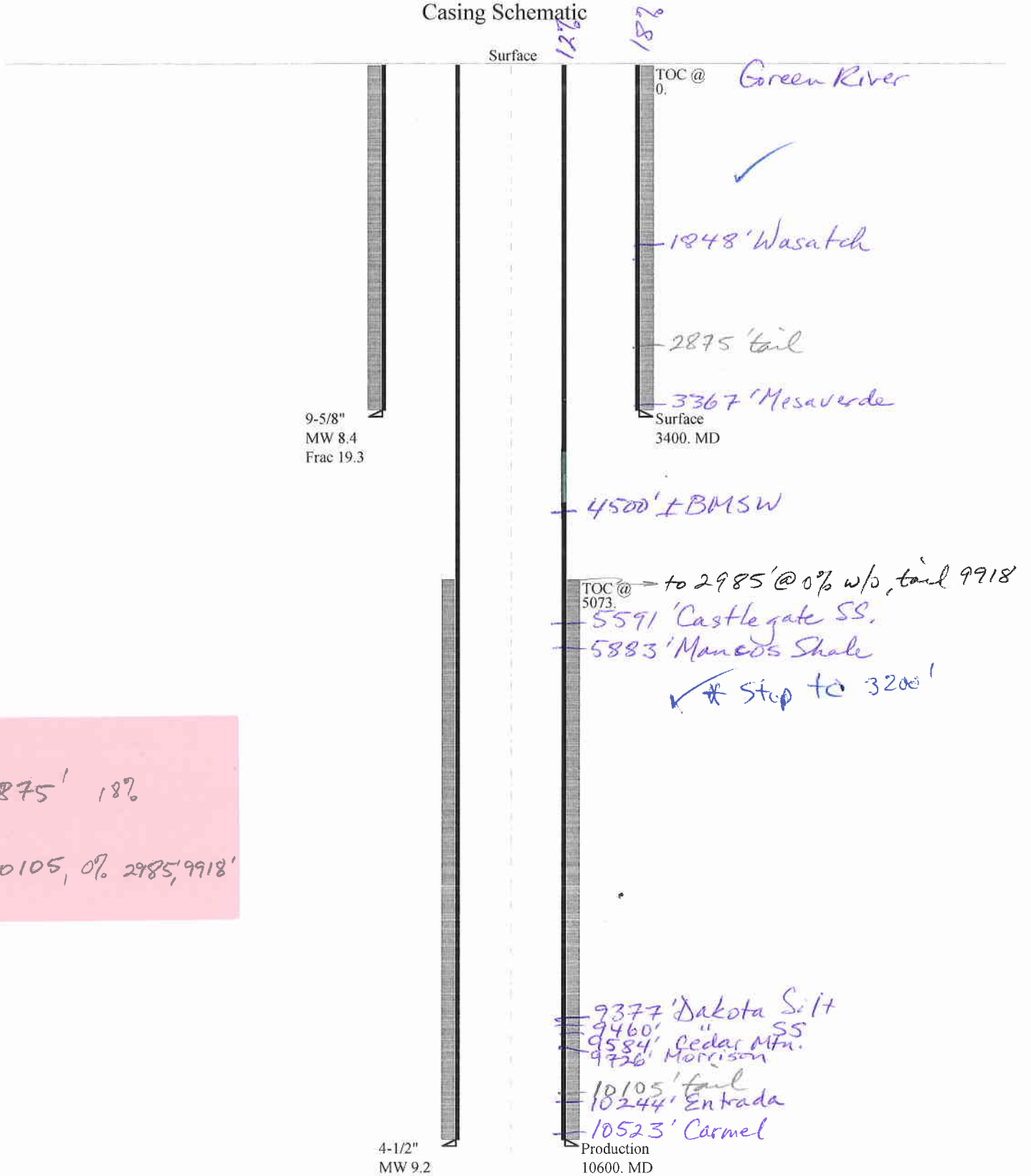
\*Max Pressure Allowed @ Previous Casing Shoe =

3400

psi

\*Assumes 1psi/ft frac gradient

Casing Schematic



Well name:	<b>43019315530000 Snowshoe 2-15-16-22rev</b>	
Operator:	<b>Wind River II Corporation</b>	
String type:	Surface	Project ID: 43-019-31553-0000
Location:	Grand County, Utah	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 123 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 800 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,992 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 3,400 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 2,977 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 10,600 ft  
Next mud weight: 9.200 ppg  
Next setting BHP: 5,066 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,400 ft  
Injection pressure: 3,400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3400	9.625	36.00	J-55	ST&C	3400	3400	8.796	1475.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1484	2020	1.362	3400	3520	1.04	107	394	3.68 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: January 20, 2010  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3400 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43019315530000 Snowshoe 2-15-16-22rev</b>		
Operator:	<b>Wind River II Corporation</b>		
String type:	Production	Project ID:	43-019-31553-0000
Location:	Grand County, Utah		

**Design parameters:**
**Collapse**

Mud weight: 9.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 223 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 5,073 ft

**Burst**

Max anticipated surface pressure: 2,734 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,066 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 9,142 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10600	4.5	11.60	HCP-110	LT&C	10600	10600	3.875	925

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5066	8650	1.707	5066	10690	2.11	106	279	2.63 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: January 20, 2010  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10600 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*





GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 4, 2010

Wind River II Corporation  
1245 E. Brickyard Rd, Ste 110  
Salt Lake City, UT 84106

Subject: Snowshoe 2-15-16-22 Well, 948' FNL, 1461' FEL, NW NE, Sec. 15, T. 16 South, R. 22 East, Grand County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31553.

Sincerely,

Gil Hunt  
Associate Director

GLH/js  
Enclosures

cc: Grand County Assessor  
SITLA  
Bureau of Land Management, Moab Field Office



**Operator:** Wind River II Corporation  
**Well Name & Number** Snowshoe 2-15-16-22  
**API Number:** 43-019-31553  
**Lease:** ML-47566

**Location:** NW NE Sec. 15 T. 16 South R. 22 East

### **Conditions of Approval**

#### **1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels  
OR  
Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes made to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Carol Daniels (801) 538-5284 office
- Dustin Doucet (801) 538-5281 office  
(801) 733-0983 after office hours
- Dan Jarvis at: (801) 538-5338 office  
(801) 942-0871 after office hours

3. **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with Division of Oil, Gas and Mining, including but not limited to:


- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
8. Cement volume for the 4 ½ " production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3200' MD in order to adequately isolate the base of moderately saline groundwater.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

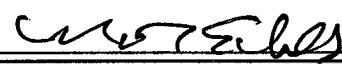
FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: ML 47566		6. SURFACE: State	
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a			
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: Rock Spring Unit			
2. NAME OF OPERATOR: Wind River II Corporation				9. WELL NAME and NUMBER: Snowshoe 2-15-16-22			
3. ADDRESS OF OPERATOR: <u>Suite 110</u> 1245 E Brickyard Rd CITY Salt Lake City STATE UT ZIP 84106				PHONE NUMBER: (801) 466-4131		10. FIELD AND POOL, OR WILDCAT: <del>Wildcat (Entrada)</del> Undesignated	
4. LOCATION OF WELL (FOOTAGES) <u>631447 X 4364338 Y 39.420439 -109.472990</u> AT SURFACE: 948' FNL & 1,461' FEL (NENE) Sec. 15-T16S-R22E, SLB&M AT PROPOSED PRODUCING ZONE: same 				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 15 16S 22E S			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 45 miles NE of Green River & 65 SE of Roosevelt				12. COUNTY: Grand		13. STATE: UTAH	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 948'		16. NUMBER OF ACRES IN LEASE: 2,560		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 80			
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 3,580' to Operator's Snowshoe 4-15-16-22		19. PROPOSED DEPTH: 10,600		20. BOND DESCRIPTION: Surety RLB0008795			
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 7,465' (GR)		22. APPROXIMATE DATE WORK WILL START: 8/1/2010		23. ESTIMATED DURATION: 35 days			

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12.25"	9.625"	J-55	36#	3,400	Lead: Lite Prem Plus	1,005 sx	1.82 cu ft/sk 12.8 ppg
					Tail: Prem Plus V	280 sx	1.19 cu ft /sk 15.6 ppg
7.875"	4.5"	HCP-110	11.6#	10,600	See Drilling Plan		

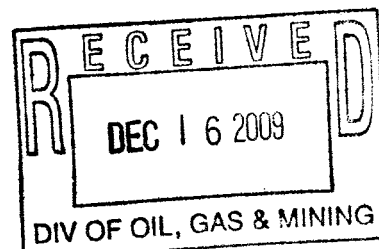
25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

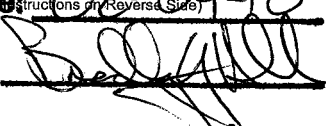
NAME (PLEASE PRINT) Marc T. Eckels TITLE Vice President  
 SIGNATURE  DATE 12/15/2009

(This space for State use only)

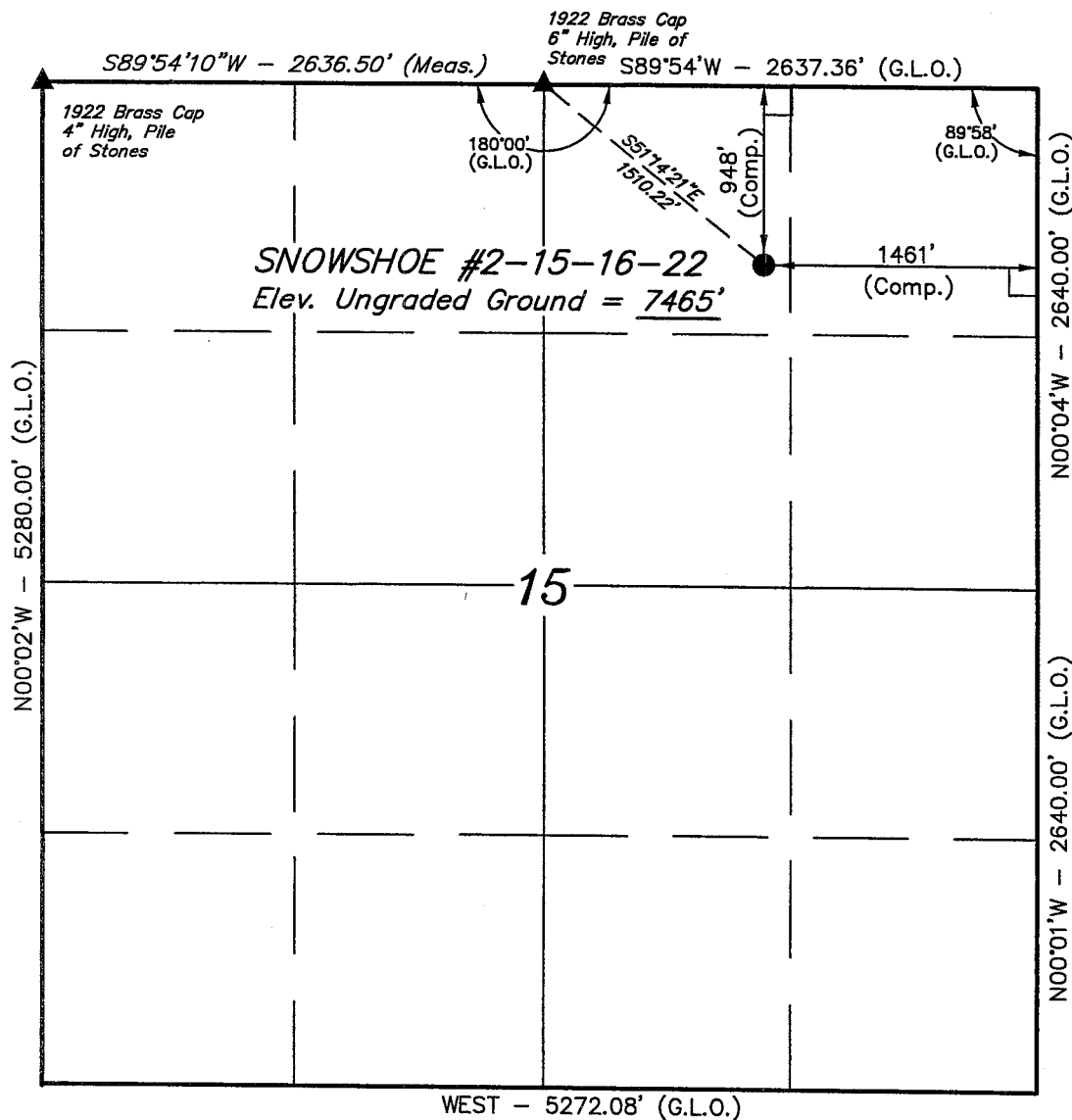
API NUMBER ASSIGNED: 43019-31553

**Approved by the  
Utah Division of  
Oil, Gas and Mining**



Date: 12-04-10  
By: 

**T16S, R22E, S.L.B.&M.**



**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)  
 LATITUDE = 39°25'13.54" (39.420428)  
 LONGITUDE = 109°28'25.30" (109.473694)  
 (AUTONOMOUS NAD 27)  
 LATITUDE = 39°25'13.66" (39.420461)  
 LONGITUDE = 109°28'22.85" (109.473014)

**WIND RIVER II CORPORATION**

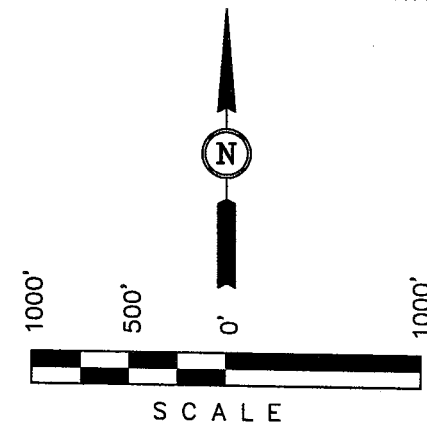
Well location, SNOWSHOE #2-15-16-22, located as shown in the NW 1/4 NE 1/4 of Section 15, T16S, R22E, S.L.B.&M. Grand County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 15, T16S, R22E, S.L.B.&M. TAKEN FROM THE CEDAR CAMP CANYON QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7446 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



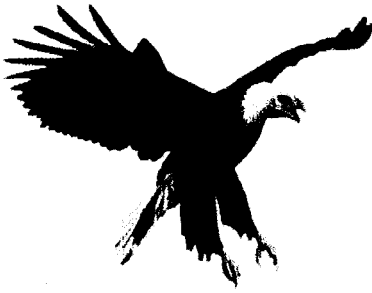
**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John A. Hays*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 08-29-05	DATE DRAWN: 09-01-05
PARTY J.F. P.J. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE WIND RIVER II CORPORATION	



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

December 15, 2009

Diana Mason, Petroleum Technician  
Utah Division of Oil, Gas & Mining  
P. O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Request for Location Exception  
Snowshoe 2-15-16-22  
NWNE Sec. 15-T16S-R22E  
Rock Spring Unit  
Grand County

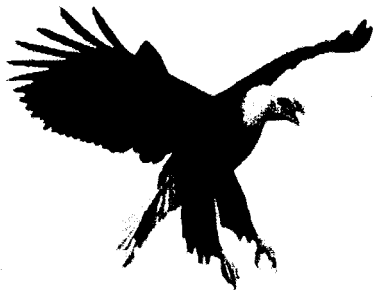
Dear Ms. Mason:

An administrative location exception is requested for the Snowshoe 2-15-16-22 so that this vertical well can be located to penetrate a series of anomalies evident in the high resolution 3D seismic survey that Wind River II Corporation acquired in the field during the fall of 2004. We anticipate that the requested location will allow a single well bore to penetrate a combination of amplitude and structural anomalies in the Dakota, Cedar Mountain and Entrada formations that would not be possible from any location within 200' of the center of the quarter-quarter section.

The requested location is approximately 600' to the southeast of the center of the NWNE and approximately 300' outside the allowed window. It is 948' from the nearest lease line, which is a boundary with another lease controlled by Wind River. The distance from the proposed location to the closest minerals not leased to Wind River is approximately 4,000'.

Please call me if you have any questions or need additional information.

Marc T. Eckels  
Vice President



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

RECEIVED

DEC 16 2009

DIV. OF OIL, GAS & MINING

December 15, 2009

Diana Mason, Petroleum Technician – Permitting  
Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Snowshoe 2-15-16-22 APD & Other Matters  
NWNE Section 15-T16S-R22E  
Grand County, UT

Dear Ms. Mason:

The Snowshoe 2-15-16-22 was originally permitted as an Entrada wildcat well in the Rock Spring Unit with an APD approval date of February 16, 2006. It was to have been the third of several wells that we permitted at about the same time. We built the location, along with the other two well locations, one right after the other so that we would not have to mob and demob the required heavy equipment repeatedly.

On February 17, 2006, a dry hole digger drilled a conductor hole to 40' and set and cemented 14" conductor pipe in the hole. This was the spud of the well, although I failed to recognize it as such and sent the Division neither a spud notice nor an Entity Action Form.

On the basis of our drilling experience with the first two wells, we decided to focus our early efforts in the Rock Spring Unit on the slightly shallower Dakota and Cedar Mountain formations. We staked, permitted and subsequently drilled the Snowshoe 4-15-16-22, which will be a Dakota/Cedar Mountain/Morrison producer approximately 3,580' to the west of the Snowshoe 2-15-16-22. The original Snowshoe 2-15 APD expired on February 16, 2007. However, the location had been built and technically the well had been spudded. We re-permitted the well with an effective date of December 19, 2007. Obviously, that permit has also expired.

We delayed drilling new wells in the Rock Spring Unit because the gathering pipeline that we anticipated would be built into our area did not materialize and we had drilled three wells from which we could not sell gas. In August 2008, we started selling gas from the first well into the new Energy Transfer Partners

pipeline. Due to the economy and the price of natural gas, we have been unable to complete the other two existing wells or drill new wells during 2009.

We expect both the economy and the price of natural gas to recover, and we fully intend to complete the existing wells and resume drilling when they do. The Snowshoe 2-15-16-22 remains a viable Entrada wildcat prospect and it will get drilled. Reclaiming the existing location would be a waste of money and simply delay the project further.

Bart Kettle cited us on December 1, 2009, because we have a drilling location built and a well spudded with no permit in place. My discussion of the situation with Bart resulted in the attached package. Basically, he agreed that we can keep the existing location ready for drilling by submitting a new APD and a spud notice with the actual spud date. He will address his regulatory concerns in the Conditions of Approval that will be attached to the APD when it is approved. This will get an APD in place and will recognize that the well has been spudded. I will then file quarterly Sundry Notices keeping the Division informed of our progress. I believe that Bart will stipulate that we commence drilling operations by September 1, 2010.

I also realize that I should have filed an Entity Action Form at the time of spud. I have discussed this with Earlene Russell, who suggested that I include the Form 6 in this package with a note to the effect that you will pass it on to her when the APD has been approved.

The enclosed package contains two copies each of the new APD and the spud notice Sundry and one copy each of the Entity Action Form and the updated Request for Location Exception. I have also enclosed evidence of our bond (copy of Surety Bond RLB0008795 and our most recent renewal.

Water for drilling and completing this well will be purchased from Bert Delambert under Water Right 49-123.

There will be no new surface disturbance when we drill this well, as both the location and the access road already exist. SITLA has previously agreed that the cultural resources survey conducted for the 40-square mile seismic survey that we shot in 2004 adequately covered both the drilling location and the access road. The location construction pre-dated the requirement for a paleontological survey. I assume that we will not be required to perform such a survey on disturbed ground. We did perform a paleo survey in 2008 for the portion of the gathering system that ran cross-county (away from the existing road system) and found nothing of significance.

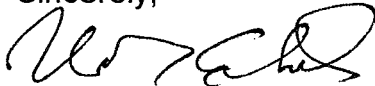
I apologize to the Division, and to you, for my failure to handle this situation properly. I appreciate the work that you all do and am sorry to have added to it unnecessarily. This package should get the Snowshoe 2-15-16-22 properly



permitted. I will work with Bart Kettle after the APD has been approved to make certain that we are in compliance with whatever COAs are attached.

Please call me if you have any questions or need any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Marc T. Eckels', written in a cursive style.

Marc T. Eckels

Cc: Lavonne Garrison, SITLA

**DRILLING PLAN  
WIND RIVER II CORP.  
SNOWSHOE 2-15-16-22**

1. Estimated Formation Tops (Depth from Surface):

Green River @ Surface

Wasatch = 1,848'

Mesaverde = 3,367'

Castlegate Sandstone = 5,591' - Gas

Mancos Shale = 5,883' - Gas

Dakota Silt = 9,377' - Gas

Dakota Sandstone = 9,460' - Gas

Cedar Mountain = 9,584' - Gas

Morrison = 9,726' - Gas

Entrada Sandstone = 10,244' - Gas

Carmel = 10,523'

TD = 10,600'

2. Wind River II's Minimum Specification for Pressure Control Equipment and Testing:

- A. 5,000 psi WP Double Gate Blowout Preventer with Annular Preventer (schematic diagram attached)
- B. BOPE will be pressure tested upon installation, whenever a seal subject to test pressure is broken or repairs are made; and at least once every 30 days. Chart recorders shall be used for all pressure tests.

Ram-type preventers and related pressure control equipment will be pressure tested to the rated working pressure of the stack assembly if a test plug is used. If a test plug is not used, the stack assembly will be tested to the rated working pressure of the stack assembly or to 70% of the minimum internal yield pressure of the casing, whichever is less.

Annular-type preventers will be pressure tested to 50% of rated working pressure.

- C. All casing strings will be pressure tested to 0.22 psi/ft or 1,500 psi, whichever is greater, prior to drilling plug after cementing. Test pressure not to exceed 70% of the internal yield pressure for the casing.
- D. Wind River II will comply with all requirements for well control specified in the Utah DOG&M Oil & Gas Conservation General Rules. DOG&M representative will be notified 24 hours prior to all BOPE and casing pressure tests.

3. Auxiliary Equipment:

Kelly Cock – Yes

Float Sub at Bit – No

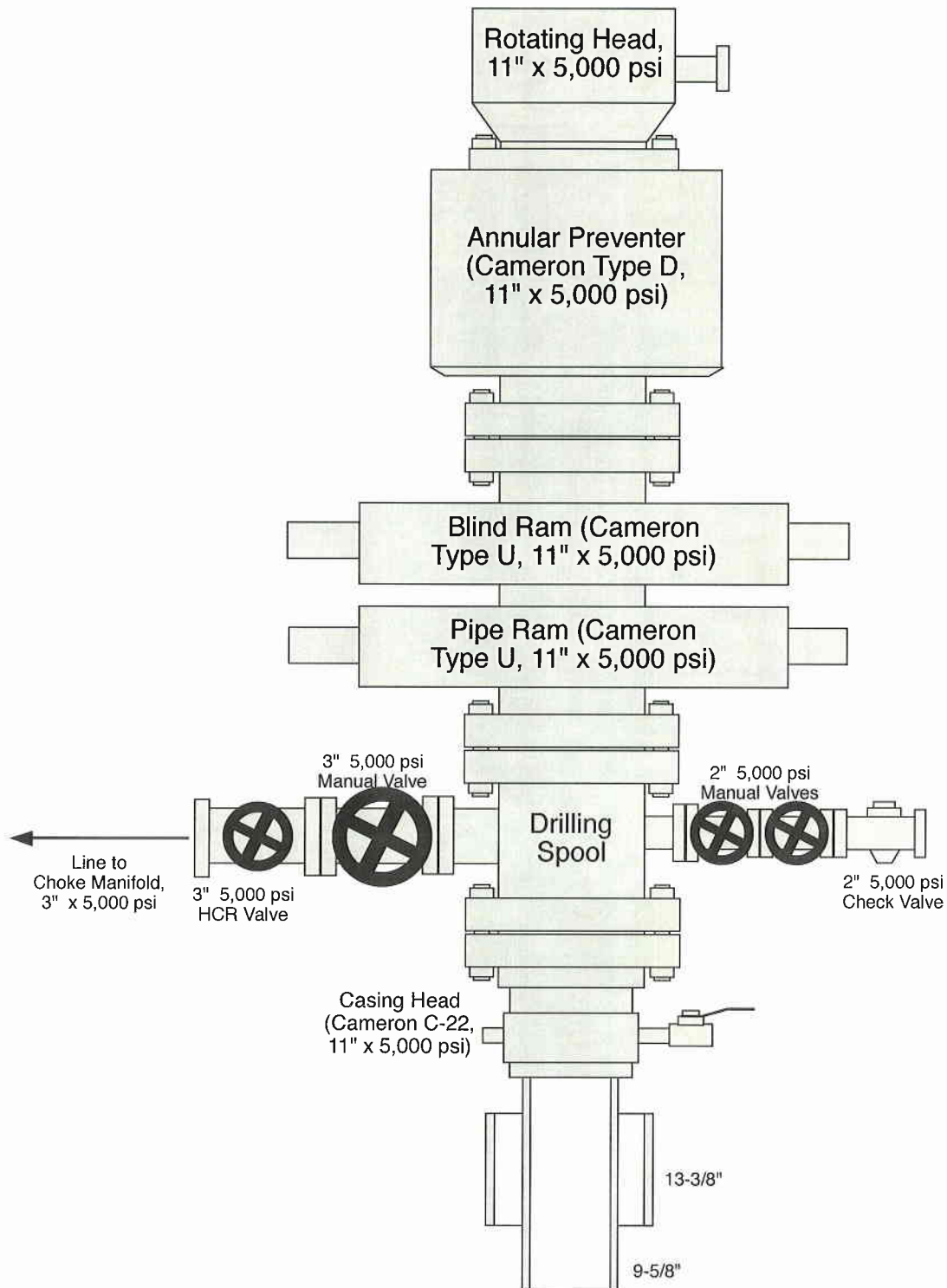
Mud Logger & Instrumentation– Yes

Full-opening Safety Valve on Rig Floor – Yes

Rotating Head – Only if drilling with aerated fluid

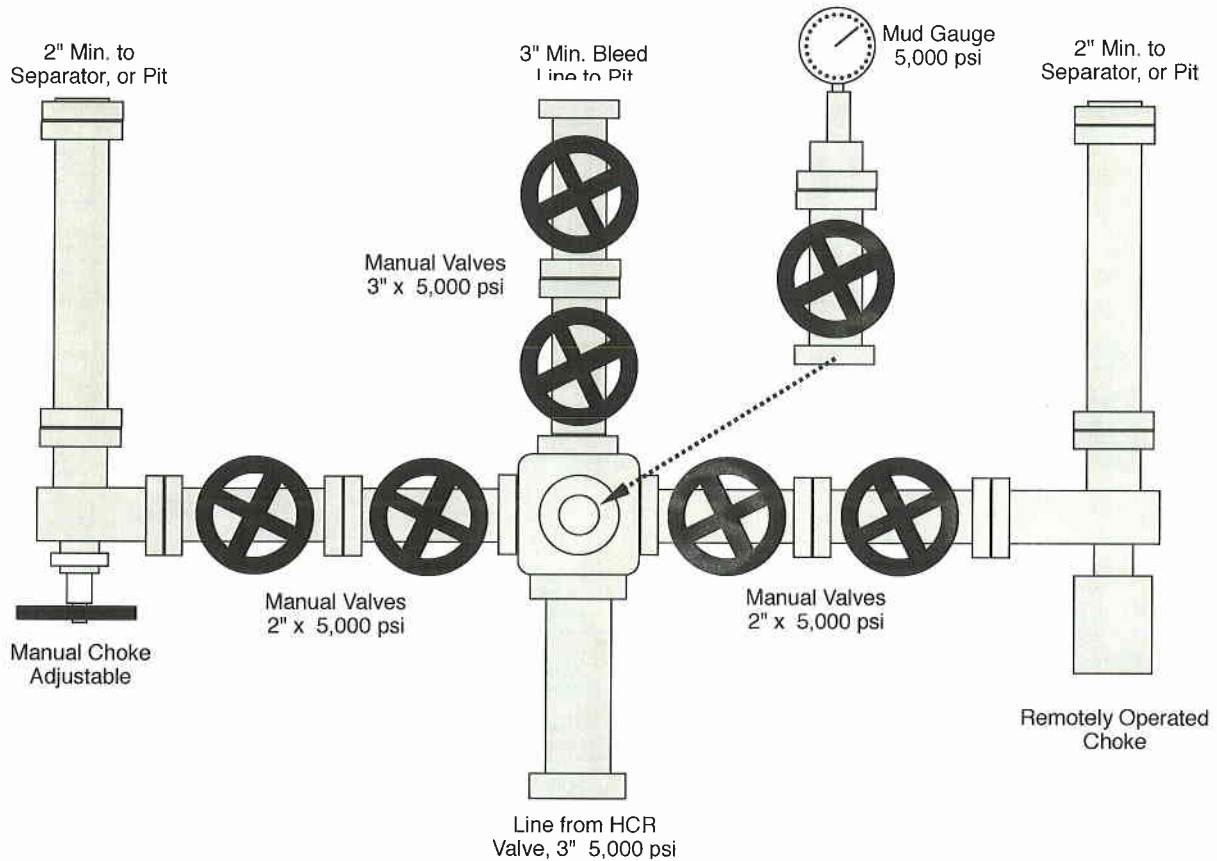
**BOP Configuration for 5,000  
psi Working Pressure**

Page 3A  
Wind River II Corp.  
Snowshoe 2-15-16-22



## Choke Manifold Configuration for 5,000 psi Working Pressure

Page 3B  
Wind River II Corp.  
Snowshoe 2-15-16-22



### Testing Procedure:

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.
4. Casing will be tested to 0.22 psi/ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

4. Casing Program\*:

	Setting Depth	Hole Size	Casing O.D.	Grade	Weight/Ft.
Conductor	40'	20"	14"	Contractor	0.250" wall
Surface	3,400'	12-1/4"	9-5/8"	J-55	36.00# (new)
Production	0'-10,600'	7-7/8"	4-1/2"	HCP-110	11.6# (new)

\*Subject to review on the basis of actual conditions encountered.  
Production casing depth will be adjusted based on results.

5. Cement Program:

**Conductor – 0-40'**

Ready Mix to surface

**Surface Casing – 0 – 3,400'**

Lead: 1,005 sx Lt Premium Plus w/ 0.125#/sk Polyflake & 1% CaCl

Tail: 280 sx Prem Plus V w/ 0.125#/sk Polyflake & 1% CaCl

100% Excess. Will top with Premium Top Out cement down 1" pipe, as needed.

Cement Characteristics:

Lead

Yield = 1.82 cu ft per sk

Slurry Weight = 12.8 ppg

Compressive Strength = 900 psi (24 hrs @  
80 degrees F)

Tail

Yield = 1.19 cu ft per sk

Slurry Weight = 15.6 ppg

Compressive Strength = 3,400 psi (24 hrs @  
80 degrees F)

**Production Casing – 0'- 10,600'**

Lead: 1,170 sx 50/50 Pozmix w/ 5#/sk Silicalite, 20% SSA-1, 0.2%  
Halad-766, 0.1% Versaset, 1.5% Zonesealant 2000, foamed to  
11.0 ppg w/ nitrogen

Tail: 115 sx 50/50 Pozmix w/ 5#/sk Silicalite, 20% SSA-1, 0.2%

Halad-766, 0.1% Versaset, (no foam)

30% Excess. Actual cement volumes will be based on caliper log calculations and drilling experience.

Cement Characteristics: Yield = 1.35 cu ft per sk  
Slurry Weight (not foamed) = 14.3 ppg  
Slurry Weight (foamed) = 11.0 ppg  
Compressive Strength  
Foamed Lead = 900 psi  
(24 hrs @ 140 degrees F)  
Non-foamed Tail = 1,400 psi  
(24 hrs @ 140 degrees F)

Actual cement volumes will be based on caliper log calculations and drilling experience.

6. Testing, Logging, Coring:

- A. Drill Stem Tests – none anticipated
- B. Electric Logs – DIFL/SP/GR from TD to surface  
SDL/CNL/CAL w/ DFIL from TD to 3,200'
- C. Coring – Possible sidewall coring in the Dakota,  
Cedar Mountain, Morrison & Entrada.

7. Drilling Fluids:

Well will be drilled with a low solids non-dispersed mud. In the event of severe lost circulation, the mud may be aerated. next P

8. Abnormal Pressures and Hazards:

No abnormal pressures or hydrogen sulfide are anticipated based on operator's drilling to the same formations at similar depths 3,580' to the west (Snowshoe 4-15-16-22). Anticipate mud weight of 9.2 ppg at TD.

## **SURFACE USE PLAN WIND RIVER II CORPORATION**

### **SNOWSHOE 2-15-16-22**

1. Existing Roads:

- A. Topographic Map "A" shows the vicinity of the well, including the intersection (Three Pines Jct.) of the Divide, Winter Ridge, Moon Ridge and Hay Canyon roads. This point is reached from Ouray, Utah, on State Road 88, the Seep Ridge Road and the Divide Road. The distance from Ouray to the Seep Ridge/Divide Road intersection is approximately 55 miles. A right turn (to the southwest) onto the Divide Road will lead to Three Pines Jct. in 9.2 miles. Continue approximately 3.3 miles through the junction on the Moon Ridge Road to the Cedar Camp Road on the right (north). Follow the Cedar Camp Road northwest for 2.7 miles to the start of the lease road.

Topographic Map "B" shows the Cedar Camp Road in detail. The point where the lease road departs the existing Cedar Camp Road is approximately 70.2 miles from Ouray. The proposed lease access road will be 0.2 miles.

2. Planned Access Road (this road was built under previous APD):

Refer to Topographic Map "B".

- A. Length of new road is approximately 0.2 miles.
- B. The right-of-way width is 50' (25' on either side of the centerline) with a 20-foot wide running surface.
- C. Maximum grade is less than 2%.
- D. No turn-outs are planned.
- E. The new road will be crowned, ditched and dipped to provide adequate drainage.
- F. No culverts or bridges are anticipated. Surface material will be shale native to the area or locally obtained limestone or tar sands.



- G. No gates or cattleguards will be needed. Nor will any existing facilities be modified.
- H. The proposed road was flagged when the location was staked.
- I. The authorized officer will be contacted at least 24 hours in advance of commencement of construction of the access road and well pad.

3. Location of Existing Wells:

The nearest well is Wind River II's Snowshoe 4-15-16-22, located approximately 3,580' to the west. This well will be completed in the Dakota, Cedar Mountain and Morrison formations.

4. Location of Existing and/or proposed Facilities:

There are no existing facilities on the proposed well pad. All proposed facilities will be contained within the proposed location site (see attached "Location Layout").

Gas will be transported via the existing Energy Transfer Partners 4" line located along the Cedar Camp Road, approximately 0.2 mile from the location. The operator will submit information concerning proposed on and off well pad facilities once production has been established by applying for approval of subsequent operations.

5. Location and Type of Water Supply:

- A. Water for drilling will be purchased from Bert Delambert (Water Right #49-123) and hauled by truck from his ranch in Main Canyon.
- B. Water will be transported by truck on the Winter Ridge, Divide, Moon Ridge, Cedar Camp and other existing roads.
- C. No water well will be drilled.

6. Source of Construction Materials:

- A. It is not anticipated that any construction materials will be needed for the drilling phase of this project. Gravel, shale or road base materials needed to upgrade access roads and well pad will be obtained from a shale pit planned on SITLA land or the PR Springs tar sand pit and trucked to the location.
- B. The entire well site and all access roads to be upgraded or built are located on lands of the Utah School and Institutional Trust Administration.
- C. All construction materials used in building the well pad and access road will be native material accumulated during construction. In the event that additional materials are needed, they will be obtained from SITLA land or from private sources.

7. Methods for Handling Waste Disposal

- A. Drill cuttings will be buried in the reserve pit.

Sewage waste will be contained in portable chemical toilets serviced by a commercial sanitary service.

Garbage and trash will be contained in trash baskets and hauled to a sanitary landfill.

Salt and chemicals will be kept in proper containers and salvaged for future use or disposed of at an approved facility.

- B. Drilling fluids will be contained in the reserve pit and mud tanks. To the extent possible, drilling fluids and water will be saved for use at future drilling locations. Unusable drilling fluids and water will be disposed of in an approved manner upon the completion of the well.
- C. The reserve pit will be lined with 12 mil plastic nylon reinforced liner installed over sufficient bedding material to cover any exposed rocks.

The pit will be fenced on three sides with 39" net wire, topped with a minimum of one stand of barbed wire. All wire will be stretched prior to attachment to the corner posts. The fourth side will be fenced when drilling activities are completed to allow drying.

8. Ancillary Facilities:

No airstrips will be built. Mobile living quarters and office facilities for supervisors, geologists, mud engineer, mud loggers, drilling crew and air compressor personnel will be confined to the drilling location as shown on the "Location Layout" diagram.

9. Well Site Layout:

- A. Refer to attached "Typical Cross Section" diagram for cuts and fills and relation to topography
- B. Refer to "Location Layout" diagram for location of mud tanks, reserve and flare pits, pipe racks, living facilities and top soil stockpiles.
- C. Refer to "Location Layout" diagram for rig orientation, access road and parking area.

10. Plans for Restoration of the Surface:

- A. Producing well location
  - i. Immediately upon well completion the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
  - ii. Immediately upon well completion any hydrocarbons on the reserve pit will be removed and disposed of properly.
  - iii. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days of the date of well completion, or as soon thereafter as is practical. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc, removed. The liner will be perforated and torn prior to backfilling.
  - iv. Access roads will be graded and maintained to prevent erosion and accommodate year-round traffic.
  - v. All disturbed areas not needed for operations will be seeded with the mixture required by SITLA.

B. Dry Hole/Abandoned Location

At such time as it is determined that the well is to be plugged and abandoned, the operator will submit a subsequent report of abandonment to the Utah DOG&M. The operator will then consult with DOG&M and SITLA to obtain plugging orders.

11. Surface Ownership:

Access roads and location are owned by SITLA and are within the approved Rock Spring Unit.

12. Additional Information:

A. The operator will inform all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and will inform the SITLA archaeologist of the discovery.

- Whether the materials appear to be eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- A time frame for the AO to complete an expedited review under 36 CFR 900.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes at any time to relocate activities to avoid the cost of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will be allowed to resume construction.

C. Less than 10,000 pounds of any chemical(s) on EPA's Consolidated List of Chemicals Subject to Reporting Under Title III of the Superfund

Amendments and Reauthorization Act (SARA) of 1986, and less than threshold planning quantity (TPQ) of any extremely hazardous substance(s), as defined in 40 CFR, would be used, produced, transported, stored, disposed of, or associated with the proposed operation.

13. Lessee's or Operator's Representative:

Marc T. Eckels, Vice President  
Wind River II Corporation  
1245 East Brickyard Road, Suite 110  
Salt Lake City, UT 84106  
Office – 801-466-4131  
Fax - 801-466-4132  
Cell – 435-901-4217  
Home – 435-649-9295

I have inspected the proposed drill site and access road; am familiar with the conditions which currently exist; the statements made in this plan are true and correct to the best of my knowledge; and the work associated with the operations proposed here will be performed by Wind River II Corporation and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

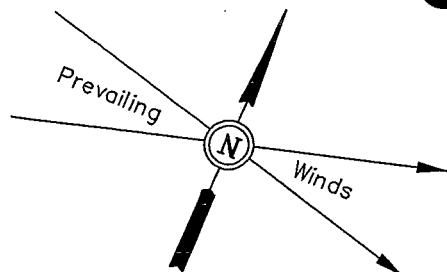
December 15, 2009  
Date

  
Marc T. Eckels  
Vice President

# WIND RIVER II CORPORATION

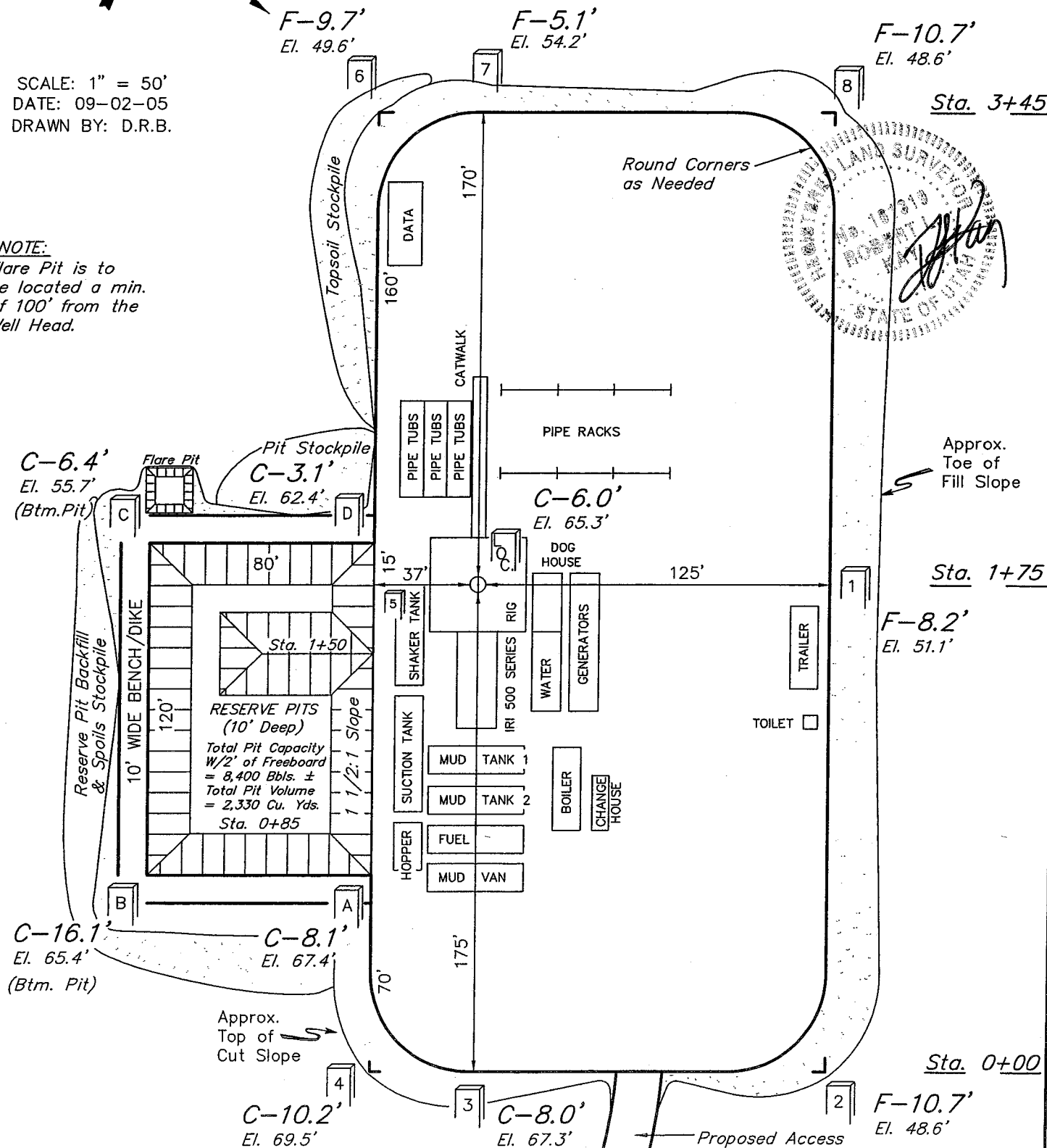
## LOCATION LAYOUT FOR

SNOWSHOE #2-15-16-22  
SECTION 15, T16S, R22E, S.L.B.&M.  
948' FNL 1461' FEL



SCALE: 1" = 50'  
DATE: 09-02-05  
DRAWN BY: D.R.B.

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



Elev. Ungraded Ground at Location Stake = 7465.3'  
Elev. Graded Ground at Location Stake = 7459.3'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

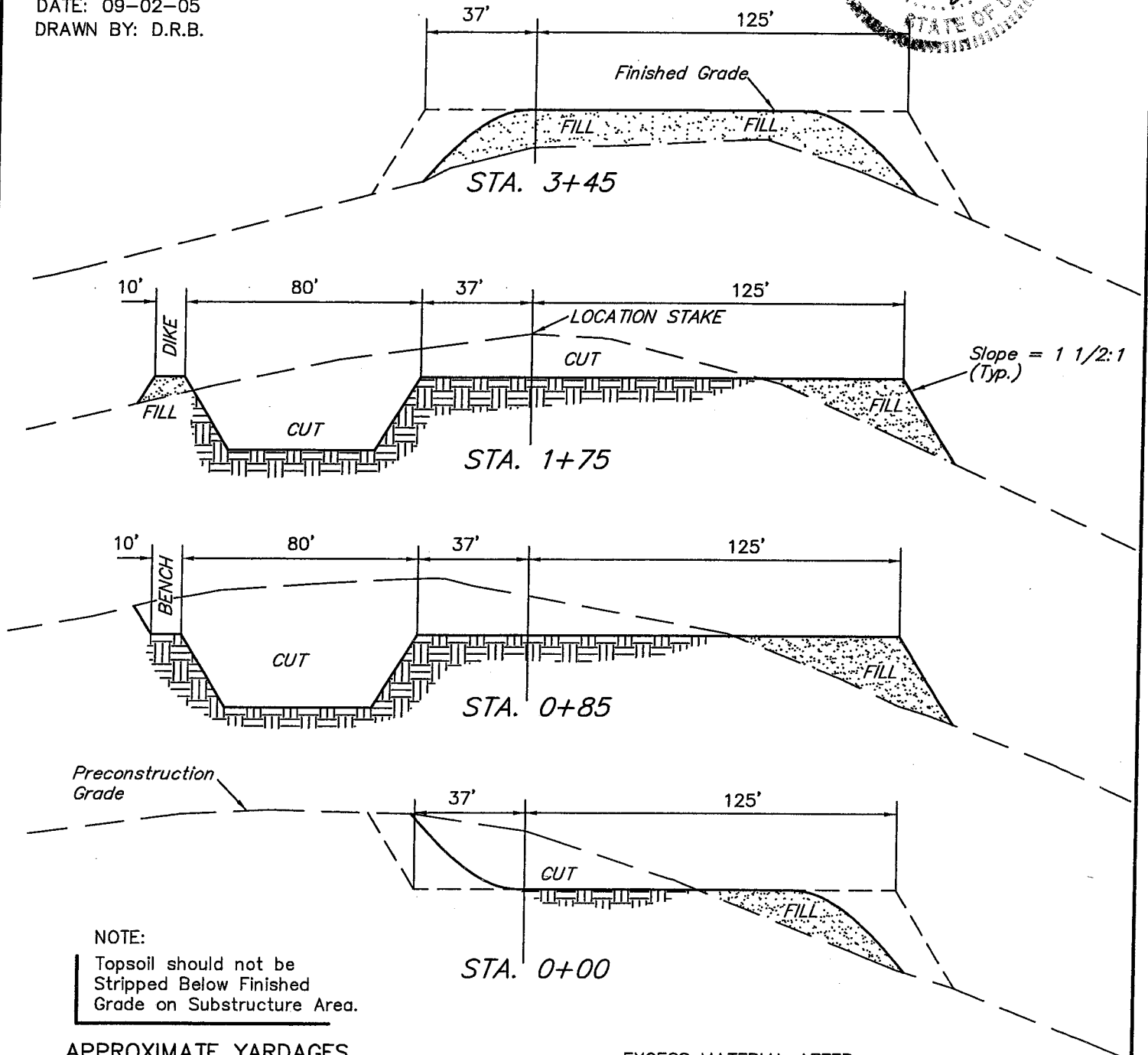
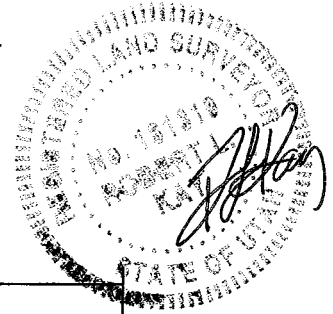
# WIND RIVER II CORPORATION

## TYPICAL CROSS SECTIONS FOR

SNOWSHOE #2-15-16-22  
SECTION 15, T16S, R22E, S.L.B.&M.  
948' FNL 1461' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 09-02-05  
DRAWN BY: D.R.B.



### APPROXIMATE YARDAGES

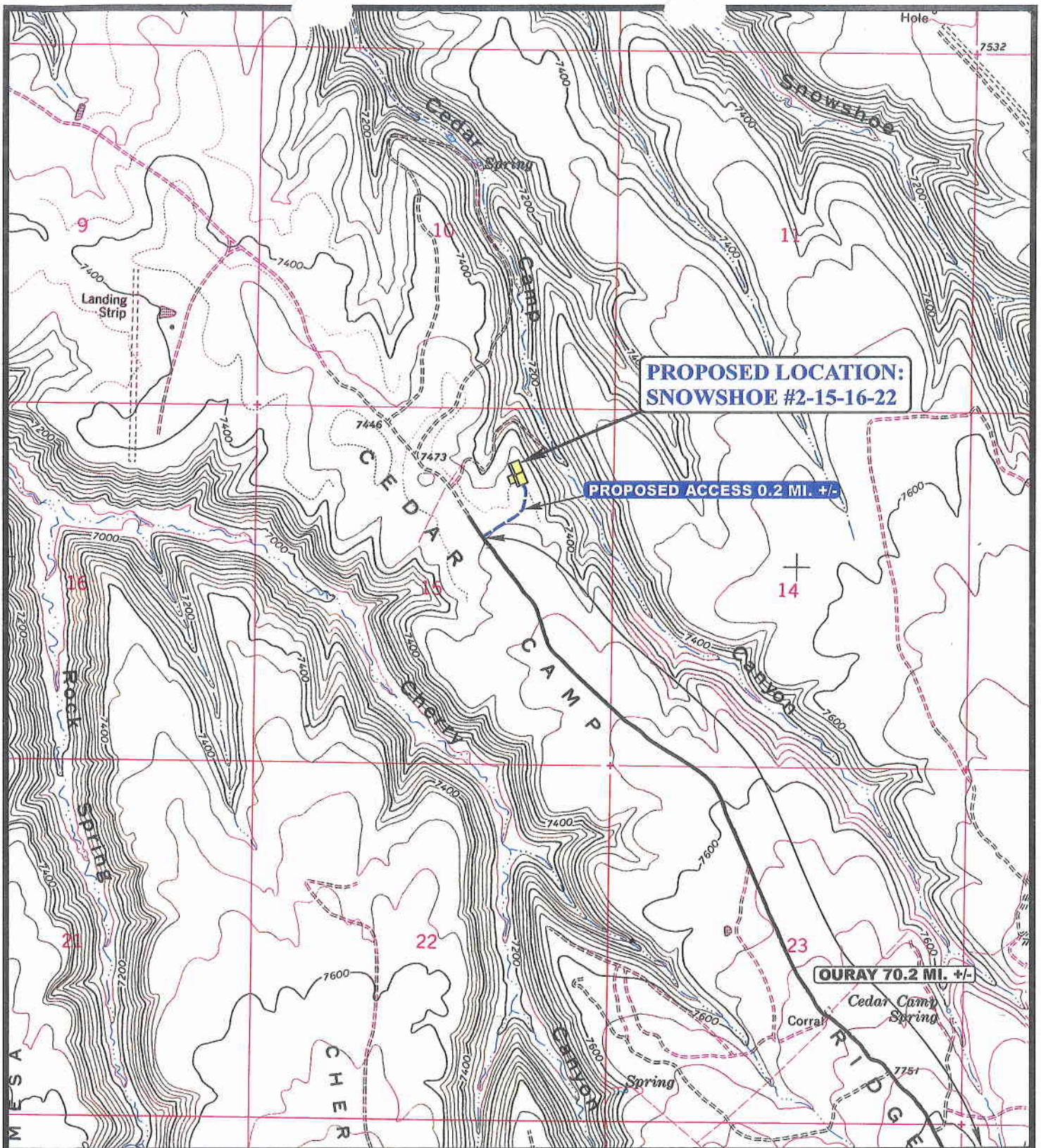
CUT  
(6") Topsoil Stripping = 1,580 Cu. Yds.  
Remaining Location = 7,680 Cu. Yds.  
TOTAL CUT = 9,260 CU.YDS.  
FILL = 6,510 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 2,750 Cu. Yds.  
Topsoil & Pit Backfill = 2,750 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017







# **LEGEND:**

 EXISTING ROAD  
 PROPOSED ACCESS ROAD



## **WIND RIVER II CORPORATION**

**SNOWSHOE #2-15-16-22**  
**SECTION 15, T16S, R22E, S.L.B.&M.**  
**948' FNL 1461' FEL**



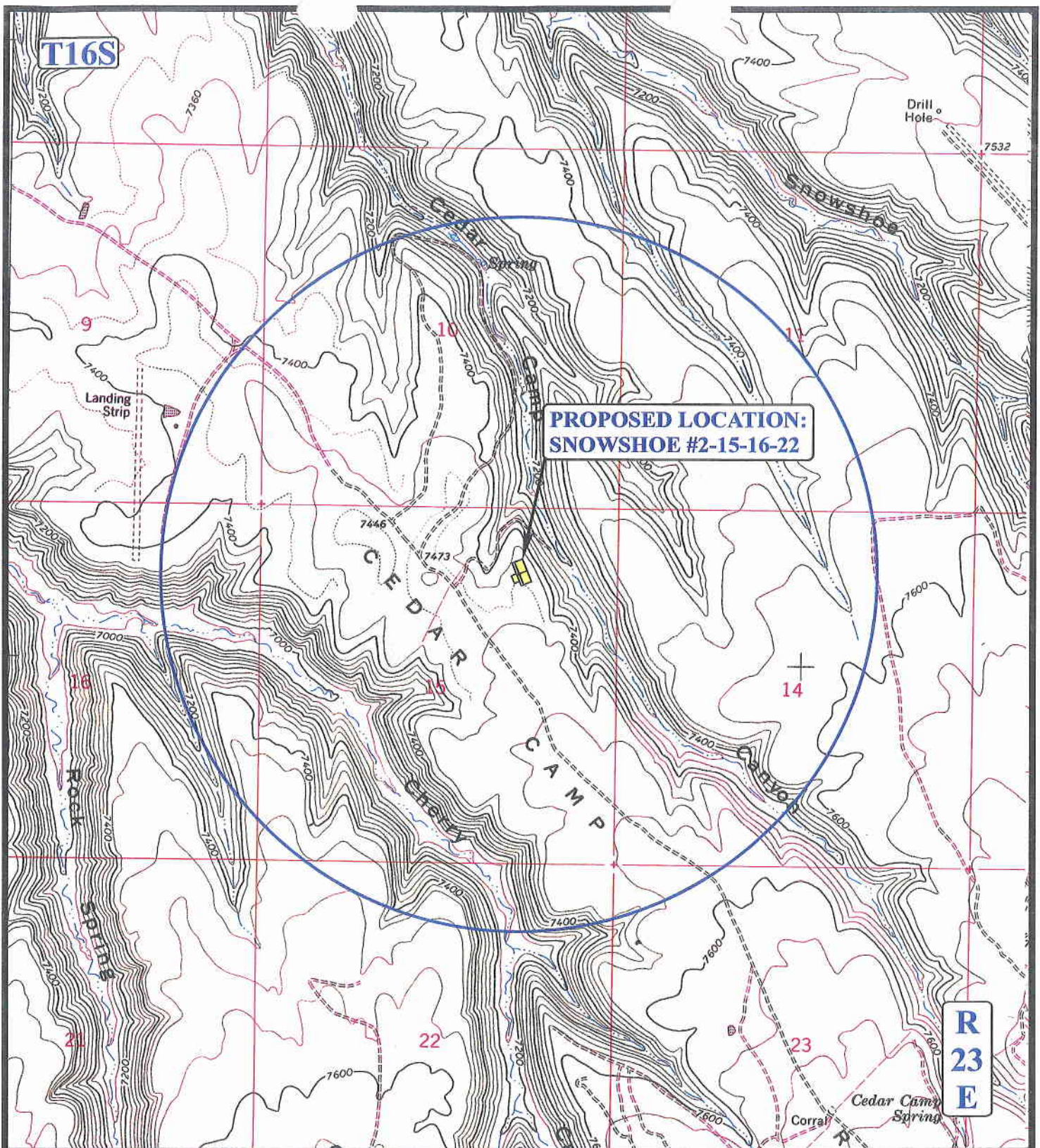
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP**  
 SCALE: 1" = 2000' DRAWN BY: B.C. REVISED: 00-00-00

**08 30 05**  
 MONTH DAY YEAR









# WIND RIVER II CORPORATION

**SNOWSHOE #2-15-16-22**

LOCATED IN GRAND COUNTY, UTAH  
SECTION 15, T16S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

**08 30 05**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: J.F.

DRAWN BY: B.C.

REVISED: 00-00-00

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML 47566

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

n/a

7. UNIT or CA AGREEMENT NAME:

Rock Spring Unit

8. WELL NAME and NUMBER:

Snowshoe 2-15-16-22

9. API NUMBER:

43-019-31553

10. FIELD AND POOL, OR WILDCAT:

Wildcat (Entrada)

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER

2. NAME OF OPERATOR:

Wind River II Corporation

3. ADDRESS OF OPERATOR:

1245 E Brickyard Rd, #110

CITY

Salt Lake City

STATE

UT

ZIP

84106

PHONE NUMBER:

(801) 466-4131

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 948' FNL & 1,461' FEL (NWNE) Sec. 15-T16S-R22E, SLB&M

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 15 16S 22E S

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: Well Spud

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The Snowshoe 2-15-16-22 was spudded on February 17, 2006, by a Pete Martin Drilling, Inc. bucket rig drilling a conductor hole. A 20" hole was drilled to 40' and 14" conductor pipe was set and cemented to the surface with ready mix.

NAME (PLEASE PRINT) Marc T. Eckels

TITLE Vice President

SIGNATURE

DATE

12/15/2009

(This space for State use only)

RECEIVED

DEC 16 2009

DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Wind River II Corporation Operator Account Number: N 2895  
Address: 1245 East Brickyard Road, Suite 110  
city Salt Lake City  
state UT zip 84106 Phone Number: (801) 466-4131

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
<u>4301931553</u>	<u>Snowshoe 2-15-16-22</u>	<u>NWNE</u>	<u>15</u>	<u>16S</u>	<u>22E</u>	<u>Grand</u>
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>A</u>	<u>99999</u>	<u>17476</u>	<u>per Sunday</u> <u>2/17/06</u>	<u>2/17/10</u>		
<b>Comments:</b> Well spudded by Pete Martin Drilling bucket rig. Set and cemented 40' of 14" conductor pipe. Previous API Numbers <u>43-019-31464 (2/16/2006)</u> & <u>43-019-31553 (12/19/2007)</u> <u>★ ENRD</u>						

★ resubmit form 6 when work starts again on this wellbore. ER DOGM  
ER 2/16/2006

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<b>Comments:</b>						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<b>Comments:</b>						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Marc T. E kels

Name (Please Print)

Signature

Vice President

Title

12/15/2009

Date

**RECEIVED**

**DEC 16 2009**

DIV. OF OIL, GAS & MINING

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/16/2009

API NO. ASSIGNED: 43-019-31553

WELL NAME: SNOWSHOE 2-15-16-22

OPERATOR: WIND RIVER II ( N2895 )

PHONE NUMBER: 801-466-4131

CONTACT: MARC ECKELS

PROPOSED LOCATION:

NWNE 15 160S 220E

SURFACE: 0948 FNL 1461 FEL

BOTTOM: 0948 FNL 1461 FEL

COUNTY: GRAND

LATITUDE: 39.42044 LONGITUDE: -109.47299

UTM SURF EASTINGS: 631447 NORTHINGS: 4364338

FIELD NAME: UNDESIGNATED ( 2 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKN	1/20/10
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML-47566

SURFACE OWNER: 3 - State

PROPOSED FORMATION: ENRD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. RLB0008795 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 49-123 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.  
Unit: ROCK SPRING *OK*  
\_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☒ R649-3-3. Exception  
\_\_\_ Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*Needs Permit (12-29-09)*

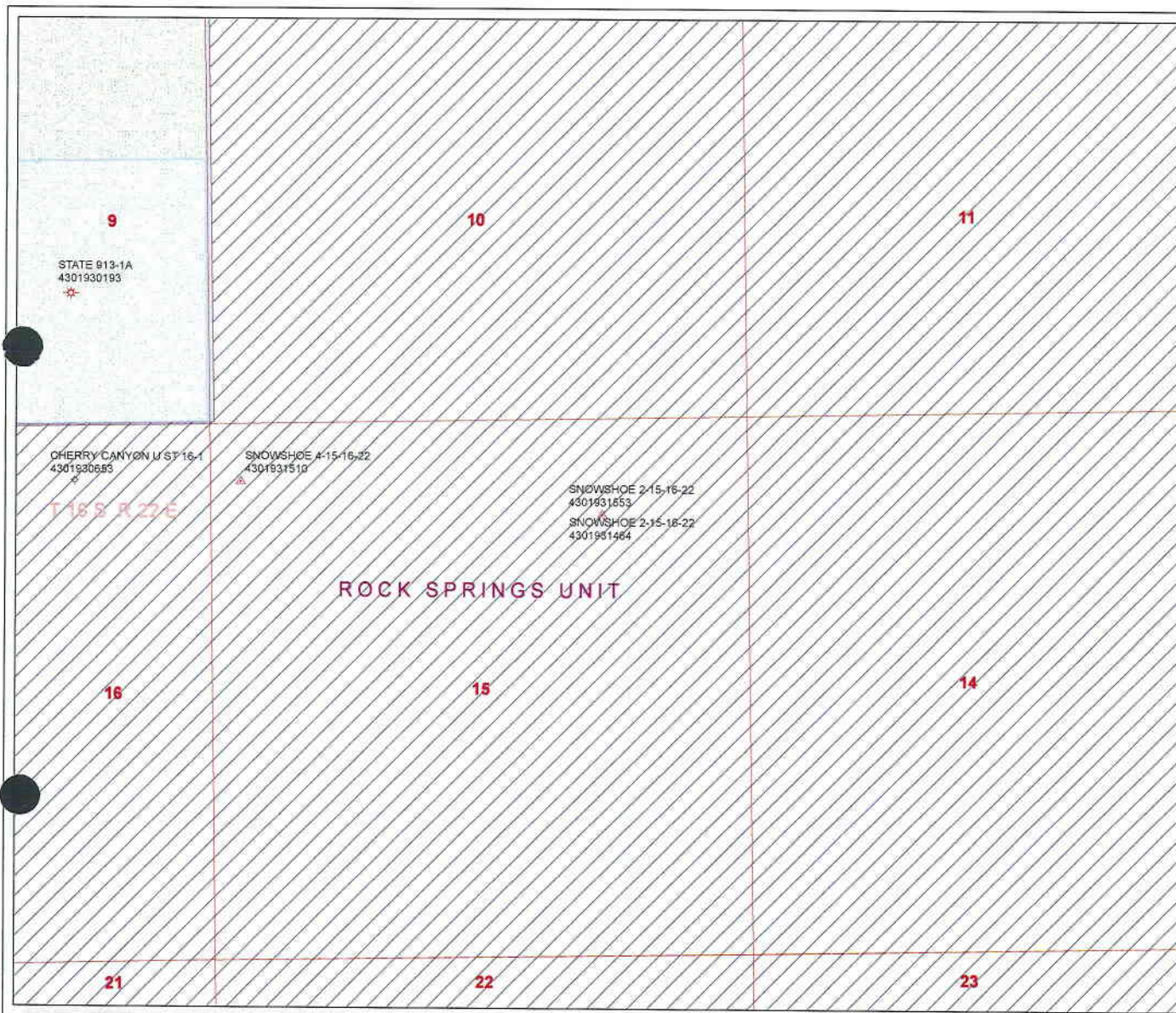
STIPULATIONS:

*1- Spacing Strip*

*2- STATEMENT OF BASIS*

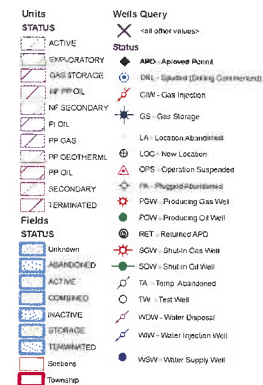
*3- Cement St. off 3a (4 1/2" production, 3200' MD, Base of moderately Saline Groundwater)*





API Number: 4301931553  
 Well Name: SNOWSHOE 2-15-16-22  
 Township 16.0 S Range 22.0 E Section 15  
 Meridian: SLBM  
 Operator: WIND RIVER II CORPORATION

Map Prepared:  
 Map Produced by Diana Mason



**Application for Permit to Drill**  
**Statement of Basis**  
**Utah Division of Oil, Gas and Mining**

1/19/2010

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<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
2252	43-019-31553-00-00		GW	S	No
<b>Operator</b>	WIND RIVER II CORPORATION	<b>Surface Owner-APD</b>			
<b>Well Name</b>	SNOWSHOE 2-15-16-22	<b>Unit</b>	ROCK SPRING		
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 15 16S 22E S 948 FNL 1461 FEL GPS Coord (UTM) 631447E 4364338N				

**Geologic Statement of Basis**

Wind River proposes to set 3,600' of surface casing at this location. The base of the moderately saline water is at approximately 4,500 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates no water wells within a 10,000 foot radius of the proposed location. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill  
APD Evaluator

10/4/2007  
Date / Time

**Surface Statement of Basis**

The proposed Snowshoe 2-15-16-22 gas well is on an existing well pad constructed prior to February 14, 2006. Site has two previous onsite evaluations completed February 14, 2006 and September 28, 2007. Per observations made at the September 28, 2007 onsite evaluation the existing well pad appears adequate for the proposed drilling operations.

Conductor casing has been set along with rat and mouse hole drilled. Pending approval of Current APD# 2252 submission of original spud report is required.

Reserve pit was lined prior to February 14, 2006, liner has since deteriorated beyond repair and now requires replacement. Solids currently contained by the reserve pit appear to have originated from drilling activities at the Kelly Canyon 5-8-16-22 well prior to July 14, 2006. As such, solids are considered E&P waste, composition testing will be required to determine appropriate method for handling prior to re-lining reserve pit.

The reserve pit has been constructed and contained E&P waste for nearly four years without the completion of drilling activity. Lack of a transport pipeline and suppressed price of natural gas have been cited as a driving forces in delaying commencement of drilling activity. Wind River II Corporation has requested delaying reserve pit reclamation. It has been the Division of Oil, Gas and Mining's observation that reserve pits remaining open for periods longer then a year frequently become unauthorized disposal sites, entrap wildlife and livestock, and threaten human health or the environment. As such, the reserve pit shall be reclaimed September 1, 2010. In the event drilling activities are commenced prior to September 1, 2010, the reserve pit will require reclamation within one year following the completion of drilling activities. In the interim period, fencing around the reserve pit shall be maintained to deter entry by livestock and wildlife.

Bart Kettle  
Onsite Evaluator

12/29/2009  
Date / Time



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# **Application for Permit to Drill**

## **Statement of Basis**

1/19/2010

**Utah Division of Oil, Gas and Mining**

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### **Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	E&P solids contained by reserve pit shall be tested prior to removal to determine proper method of handling.
Pits	Reserve pit shall be reclaimed by September 1, 2010.
Surface	The reserve pit shall be fenced.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** WIND RIVER II CORPORATION  
**Well Name** SNOWSHOE 2-15-16-22  
**API Number** 43-019-31553-0 **APD No** 2252 **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNE **Sec** 15 **Tw** 16S **Rng** 22E 948 FNL 1461 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

None, onsite visit conducted 09/28/2009 for proposed well of the same name at this site. Approval has since been rescinded and APD resubmitted.

### **Regional/Local Setting & Topography**

Proposed project site is 45 miles northeast of Green River in Grand County Utah. Site overlooks the western rim of Cedar Camp Canyon on Cedar Camp Ridge. Precept zone is a 14-16" zone and is located in a mixture of Mountain Big Sage, Pinyon/Juniper and Mountain Browse rangelands. Deep rocky pinyon/juniper, Douglas fir and mountain browse canyons surround the proposed project site. Topography to the south rises to the Bookcliff divide, and then drops off quickly into a narrow band of P/J woodlands, with extensive salt scrub clay flats in the Cisco Desert below. Slopes are more gradual to the north, with extensive P/J woodlands eventually giving way to the salt scrub communities bordering the White and Green Rivers. Perennial and intermittent springs are shown on 7.5 min maps near the bottom of adjacent canyons. Access to the well site can be gained via Grand County Rd 194 (Hay Canyon Road), Grand County Rd 209 (Bookcliff Divide Road), and Grand County Rd 210 (Cedar Camp Road).

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
	<b>Width 252</b>		<b>GRRV</b>
	<b>Length 345</b>		

#### **Ancillary Facilities N**

None being proposed for drilling of well. Mobile living quarters of personal will be confined to the well pad according to APD.

### **Waste Management Plan Adequate? N**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetland N**

#### **Flora / Fauna**

None, existing well pad.

#### **Soil Type and Characteristics**

Gray shale and clays decomposed from shale's.

#### **Erosion Issues N**

#### **Sedimentation Issues N**

#### **Site Stability Issues N**

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N

**Paleo Potential Observed?** N

**Cultural Survey Run?** Y

**Cultural Resources?** N

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 25 1 **Sensitivity Level**

**Characteristics / Requirements**

Reserve pit existing from construction activities pre-dating original onsite evaluation conducted 02/14/2006. 07/14/2006 drilling fluids noted in the reserve pit from Kelly Canyon 5-8-16-22 well. Fluids have since evaporated, leaving a substantial amount of solids in the pit. Liner has sun rotted and is not capable of holding fluids, therefore pit will require additional lining. Prior to lining, accumulated solids will require composition testing to determine proper disposal/reclamation method.

**Closed Loop Mud Required** N

**Liner Required?** Y

**Liner Thickness** 16

**Pit Underlayment Required?** Y

**Other Observations / Comments**

At onsite evaluation conducted 09/28/2007 Utah Division of Wildlife Resources submitted the following comments:

-Project area is classified as critical summer fawning and calving habitat of deer and elk. It was recommended that no activity occur from May 15 thru July 15.

Approval of APD #2252 for the Snowshoe 2-15-16-22 and reporting of spud will resolve NOV issued to Wind River II Corporation on December 1, 2009 by the Division of Oil, Gas and Mining.

Bart Kettle  
**Evaluator**

12/29/2009  
**Date / Time**

## BOPE REVIEW

Wind River Snowshoe 2-14-16-22

API 43-019-31553-0000

## INPUT

Well Name

Casing Size (")

Setting Depth (TVD)

Previous Shoe Setting Depth (TVD)

Max Mud Weight (ppg)

BOPE Proposed (psi)

Casing Internal Yield (psi)

Operators Max Anticipated Pressure (psi)

Wind River Snowshoe 2-14-16-22		API 43-019-31553-0000	
String 1	String 2		
9 5/8	4 1/2		
3400	10600		
40	3400		
8.33	9.2	✓	
500	5000		
3520	10690		
5088	9.2 ppg	✓	

## Calculations

String 1 9 5/8 "

Max BHP [psi]

.052\*Setting Depth\*MW = 1473

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 1065

NO

Air Drill

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 725

NO

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 734

NO

No expected pressure

Required Casing/BOPE Test Pressure

2464

psi

\*Max Pressure Allowed @ Previous Casing Shoe =

40

psi

\*Assumes 1psi/ft frac gradient

## Calculations

String 2 4 1/2 "

Max BHP [psi]

.052\*Setting Depth\*MW = 5071

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]

Max BHP-(0.12\*Setting Depth) = 3799

YES

MASP (Gas/Mud) [psi]

Max BHP-(0.22\*Setting Depth) = 2739

YES

o.k.

\*Can Full Expected Pressure Be Held At Previous Shoe?

Pressure At Previous Shoe

Max BHP-.22\*(Setting Depth - Previous Shoe Depth) = 3487

NO

o.k.

Required Casing/BOPE Test Pressure

5000

psi

\*Max Pressure Allowed @ Previous Casing Shoe =

3400

psi

\*Assumes 1psi/ft frac gradient

Casing Schematic

Surface

127

187

TOC @ 0.

Green River



1848' Wasatch

2875' tail

3367' Mesaverde

Surface 3400. MD

4500' ± BMSW

TOC @ 5073.

to 2985' @ 0% w/p, tail 9918'

5591' Castle gate SS.

5883' Mancos Shale

✓ \* Stop to 3200'

9-5/8"  
MW 8.4  
Frac 19.3

4-1/2"  
MW 9.2

Production  
10600. MD

9377' Dakota Silt  
9460' " SS  
9584' Cedar Mtn.  
9726' Morrison  
10105' tail  
10244' Entrada  
10523' Carmel

2875' 187

10105, 0% 2985, 9918'

Well name:	<b>43019315530000 Snowshoe 2-15-16-22rev</b>	
Operator:	<b>Wind River II Corporation</b>	Project ID:
String type:	Surface	43-019-31553-0000
Location:	Grand County, Utah	

**Design parameters:**
**Collapse**

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 123 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 800 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,992 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 3,400 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 2,977 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 10,600 ft  
Next mud weight: 9.200 ppg  
Next setting BHP: 5,066 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 3,400 ft  
Injection pressure: 3,400 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	3400	9.625	36.00	J-55	ST&C	3400	3400	8.796	1475.8

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1484	2020	1.362	3400	3520	1.04	107	394	3.68 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: January 20, 2010  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3400 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43019315530000 Snowshoe 2-15-16-22rev</b>		
Operator:	<b>Wind River II Corporation</b>		
String type:	Production	Project ID:	43-019-31553-0000
Location:	Grand County, Utah		

**Design parameters:**
**Collapse**

Mud weight: 9.200 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 223 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 5,073 ft

**Burst**

Max anticipated surface pressure: 2,734 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,066 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 9,142 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10600	4.5	11.60	HCP-110	LT&C	10600	10600	3.875	925

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5066	8650	1.707	5066	10690	2.11	106	279	2.63 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: January 20, 2010  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10600 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**CC:** Garrison, LaVonne; Hunt, Gil  
**Date:** 2/3/2010 4:28 PM  
**Subject:** Well approvals (2)

The following wells have been approved by SITLA including arch and paleo clearance.  
XTO's RBU 25-16E (4304740585)

Wind River II's Snowshoe 2-15-16-22 (4301931553).

Thanks.  
-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156





GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

February 4, 2010

Wind River II Corporation  
1245 E. Brickyard Rd, Ste 110  
Salt Lake City, UT 84106

Subject: Snowshoe 2-15-16-22 Well, 948' FNL, 1461' FEL, NW NE, Sec. 15, T. 16 South, R. 22 East, Grand County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31553.

Sincerely,

Gil Hunt  
Associate Director

GLH/js  
Enclosures

cc: Grand County Assessor  
SITLA  
Bureau of Land Management, Moab Field Office

**Location:** NW NE    **Sec.** 15    **T.** 16 South    **R.** 22 East

3. **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.
8. Cement volume for the 4 ½ " production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3200' MD in order to adequately isolate the base of moderately saline groundwater.



## WIND RIVER II CORPORATION

1245 E Brickyard Road  
Brickyard Tower, Suite 110  
Salt Lake City, Utah 84106  
Telephone: (801) 466-4131  
Facsimile: (801) 466-4132  
Email: [utah@windrivercompanies.com](mailto:utah@windrivercompanies.com)

March 15, 2010

Carol Daniels, Well Information Specialist  
Utah Division of Oil, Gas & Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

Re: Completion Report – API ~~43-019-31464~~ 43-019-31553  
Snowshoe 2-15-16-22  
NWNE Section 15-T16S-R22E  
Grand County, UT

Dear Ms. Daniels,

Enclosed are three copies of the completion report for the February 17, 2006, spud of this well when conductor pipe was set and cemented at 40'. I apologize for the tardiness of this report, as I was not aware that it was necessary until I received your call a few days ago.

Please note that after the original APD was approved in early 2006, the location was constructed and the conductor pipe was set with the expectation that the well would be drilled within a matter of a few weeks. We were drilling elsewhere in the Rock Spring Unit at the time and our drilling priorities changed so that this well has not been drilled beyond 40'.

A new APD was approved by the Division on February 4, 2010, and we expect to drill the well this summer. A new API number, 43-019-31533, has been assigned to the well.

Also attached is a Sundry Notice requested by Rachel Medina stating that no work has been performed.

Sincerely,

  
Marc T. Eckels

RECEIVED

MAR 16 2010

DIV. OF OIL, GAS & MINING

Cc: Lavonne Garrison, SITLA

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-47566

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:  
Wind River II Corporation

3. ADDRESS OF OPERATOR:  
1245 E Brickyard Rd #110 CITY Salt Lake City STATE UT ZIP 84106

PHONE NUMBER:  
(801) 466-4131

7. UNIT or CA AGREEMENT NAME  
Rock Spring Unit

8. WELL NAME and NUMBER:  
Snowshoe 2-15-16-22

9. API NUMBER:  
43-019-31464 43-019-31553

10. FIELD AND POOL, OR WILDCAT  
Wildcat

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 948' FNL & 1,461' FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: Same

AT TOTAL DEPTH: Same

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
NENE 15 16S 22E S

12. COUNTY  
Grand

13. STATE  
UTAH

14. DATE SPUDDED:  
2/17/2006

15. DATE T.D. REACHED:  
2/17/2006

16. DATE COMPLETED:  
2/17/2006

ABANDONED ☒

READY TO PRODUCE ☐

17. ELEVATIONS (DF, RKB, RT, GL):  
7,465' (GR)

18. TOTAL DEPTH: MD 40  
TVD 40

19. PLUG BACK T.D.: MD 40  
TVD 40

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

No logs run

23. WAS WELL CORED?

NO ☒

YES ☐

(Submit analysis)

WAS DST RUN?

NO ☒

YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☒

YES ☐

(Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" Cont	36.71	0	40		redimix	14	Surface	0

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none								

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) none								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
none	RECEIVED MAR 16 2010

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

New APD

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: *		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD: *
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	0

## 35. ADDITIONAL REMARKS (Include plugging procedure)

Well was permitted and conductor pipe set & cemented at 40'. Priorities changed and APD expired. New APD in effect.

## 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Marc T. EckelsTITLE Vice PresidentSIGNATURE DATE 3/15/2010

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

**ML-47566**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

**Rock Spring Unit**

8. WELL NAME and NUMBER:

**Snowshoe 2-15-16-22**

9. API NUMBER:

**4301931553**

10. FIELD AND POOL, OR WILDCAT:

**Wildcat**

1. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

OTHER \_\_\_\_\_

2. NAME OF OPERATOR:

**Wind River II Corporation**

3. ADDRESS OF OPERATOR:

**1245 E Brickyard Rd#110** CITY **Salt Lake City**

STATE **UT**

ZIP **84106**

PHONE NUMBER:

**(801) 466-4131**

4. LOCATION OF WELL

FOOTAGES AT SURFACE: **948' FNL & 1,461' FEL**

COUNTY: **Grand**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENE 15 16S 22E S**

STATE:

**UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT  
(Submit in Duplicate)

Approximate date work will start:

☒ SUBSEQUENT REPORT  
(Submit Original Form Only)

Date of work completion:

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☐ OTHER: **Status Report**

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No work has been performed on the Snowshoe 2-15-16-22 since the new APD was approved on February 4, 2010

**RECEIVED**

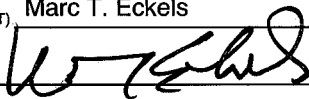
**MAR 16 2010**

**DIV. OF OIL, GAS & MINING**

NAME (PLEASE PRINT) **Marc T. Eckels**

TITLE **Vice President**

SIGNATURE



DATE **3/15/2010**

(This space for State use only)



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 5, 2011

Marc Eckels  
Wind River II Corporation  
1245 E Brickyard Rd #110  
Salt Lake City, UT 84106



Re: APD Rescinded – Snowshoe 2-15-16-22 (Re-Entry), Sec. 15, T. 16S, R. 22E, Grand County, Utah API No. 43-019-31553

Dear Mr. Eckels:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on February 4, 2010. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective April 5, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Ed Bonner, SITLA





**NOTICE OF VIOLATION**  
**STATE OF UTAH**  
**OIL AND GAS CONSERVATION ACT**

15 16S 22E